

Kent State University

Course Descriptions

Fall 2011 Undergraduate and Graduate Courses

Office of Curriculum Services
1 August 2011





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Accounting (ACCT)

ACCT 23020 INTRODUCTION TO FINANCIAL ACCOUNTING

(Equivalent to ACTT 11000) Introduction to principles of accounting as they relate to financial accounting and the preparation of financial statements. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting
Course Attributes: TAG Business

ACCT 23021 INTRODUCTION TO MANAGERIAL ACCOUNTING

(Equivalent to ACTT 11001) Introduction to principles of accounting as they relate to managerial accounting, including cost relationships. Prerequisite: ACCT 23020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting
Course Attributes: TAG Business

ACCT 33000 FUNDAMENTAL TAX PROCEDURES

Nontechnical presentation of federal income tax laws and regulations as they relate to individuals. Prerequisite: Cumulative 2.50 GPA; and ACCT 23020 or ACTT 11000; and ACCT 23021 or ACTT 11001; not open to accounting (ACCT) majors.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 33001 CORPORATE ACCOUNTING I

The review of the accounting cycle; financial statement preparation, accounting for sales, receivables, inventory, current liabilities and fixed assets. Written communication and professional accounting research skills are emphasized. Prerequisite: Cumulative 2.50 GPA; and ACCT 23021 or ACTT 11001; and accounting (ACCT) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 33004 INTRODUCTION TO ACCOUNTING SYSTEMS

Provides an overview of accounting information systems with emphasis on systems design and internal controls. Interpersonal skills and computer applications are emphasized. Prerequisite: Cumulative 2.50 GPA; and ACCT 23021 or ACTT 11001; accounting (ACCT) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Accounting

ACCT 33010 COST ACCOUNTING

Cost accounting for manufacturing and service organizations including cost determination, cost analysis and reporting costs for decision making planning and control. Ethical decision making and computer applications are emphasized. Prerequisite: cumulative 2.50 GPA; and accounting (ACCT) major; and accounting (ACCT) major; and ACCT 33001 and ACCT 33004.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 33012 CORPORATE ACCOUNTING II

Accounting for long-term liabilities, debt and equity investments leases pensions and other post-retirement benefits income tax allocation and owners' equity statement of cash flows. Verbal communication and professional accounting research skills are emphasized. Prerequisite: cumulative 2.50 GPA; and accounting (ACCT) major; and ACCT 33001 and ACCT 33004.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 33061 FINANCIAL REPORTING ISSUES AND ANALYSIS

Issues relative to the balance sheet, income statement and cash flow statement. Topics include assets, liabilities, owner's equity, revenue recognition, EPS, deferred taxes and pensions. Cannot be counted towards accounting major. Prerequisite: cumulative 2.50 GPA; and ACCT 23021 or ACTT 11001; not open to accounting (ACCT) majors.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 33063 COST CONTROL AND ANALYSIS FOR MANAGEMENT

(Equivalent to ACTT 21063) Cost accounting concepts and procedures; analysis of revenue cost and income variances. Open only to non-accounting majors; cannot count towards accounting major. Prerequisite: cumulative 2.50 GPA; and ACCT 23021 or ACTT 11001; not open to accounting (ACCT) majors.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 43010 PRINCIPLES OF AUDITING AND CONTROL

Integration of concepts and practical aspects of auditing. The importance of strong controls is stressed. Ethical decision

making and written communication skills are emphasized. Prerequisite: cumulative 2.50 GPA; and senior standing; and accounting (ACCT) major; and ACCT 33010 and ACCT 33012.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting
Course Attributes: Writing Intensive Course

ACCT 43013 ADVANCED MANAGEMENT ACCOUNTING

Advanced techniques and issues in costing and accounting measurement for management planning, decision making and control. Professional accounting research, verbal communication and ethical decision-making skills are emphasized. Prerequisite: cumulative 2.50 GPA; and senior standing ; and accounting (ACCT) major; and ACCT 33010 and ACCT 33012.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 43014 ADVANCED ACCOUNTING SYSTEMS

Emphasizes the analysis, design and implementation of accounting information systems and internal controls. Written communication, ethical decision-making and computer application skills are emphasized. Prerequisite: cumulative 2.50 GPA; and senior standing; and accounting (ACCT) major; and ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 43020 CORPORATE ACCOUNTING III

Business combinations, consolidated financial statements specialized disclosures foreign currency impacts inter-corporate investments. Professional accounting research and interpersonal skills are emphasized. Prerequisite: cumulative 2.50 GPA; and senior standing; and Accounting (ACCT) major; and ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012 and ACCT 43031.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 43031 INCOME TAXATION

Basic concepts of income recognition and deductions for individuals and corporations. Detailed coverage of the taxation of C corporations. Written communication skills are emphasized. Prerequisite: cumulative 2.50 GPA; and senior standing; and Accounting (ACCT) major; and ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012.



3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 43033 INCOME TAXATION II

Advanced partnership and corporate tax problems; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized. Prerequisite: cumulative 2.50 GPA; and senior standing; and Accounting (ACCT) major; and ACCT 43031.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 43034 NONPROFIT ACCOUNTING AND AUDITING

Unique nonprofit, financial reporting, managerial accounting and financial and operating audits for government and nonprofit entities. Professional accounting research written communication and ethical decision making skills are emphasized. Prerequisite: cumulative 2.50 GPA; and senior standing; and accounting (ACCT) major; and ACCT 33001 and ACCT 33004 and ACCT 33010 and ACCT 33012.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 43092 ACCOUNTING INTERNSHIP

Study of activities related to concurrent on-the-job experience with cooperating industrial and public accounting firms. Professional accounting research and written communication skills are emphasized. Prerequisite: Junior standing and accounting (ACCT) major and special approval.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Accounting

ACCT 43093 VARIABLE TITLE WORKSHOP IN ACCOUNTING

To be determined when a specific course is proposed for a particular term. Prerequisite: Senior standing and accounting (ACCT) major and special approval.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Accounting

ACCT 43095 SPECIAL TOPICS: ACCOUNTING

Special topics course that will be offered periodically with different topics and different faculty involved each time the course is offered. Prerequisite: Senior standing and accounting (ACCT) major and special approval.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Accounting

ACCT 43096 INDIVIDUAL INVESTIGATION IN ACCOUNTING

Open only to senior majors in accounting with permission of adviser. Prerequisite: Senior standing and accounting (ACCT) major and special approval.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Accounting

ACCT 53013 ADVANCED MANAGEMENT ACCOUNTING

Advanced techniques and issues in costing and accounting measurement for management planning, decision making and control. Professional accounting research verbal communication and ethical decision making skills are emphasized. Prerequisite: ACCT 33010 and 33012 or permission of instructor. Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 53014 ADVANCED ACCOUNTING SYSTEMS

Emphasizes the analysis, design and implementation of accounting information systems and internal controls. Written communication, ethical decision making and computer application skills emphasized. Prerequisite: ACCT 33004 or permission of instructor. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Accounting

ACCT 53020 CORPORATE ACCOUNTING III

Business combinations, consolidated financial statement; specialized disclosures; foreign currency impacts; inter corporate investments. Professional accounting research and interpersonal skills are emphasized. Prerequisite: ACCT 33012 and ACCT 43031; and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 53033 INCOME TAXATION II

Advanced partnership and corporate tax problems; estate and gift taxation; tax administration and practice. Professional accounting research and written communication skills are emphasized. Prerequisites: ACCT 43031 and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 53034 NONPROFIT ACCOUNTING AUDITING

Unique nonprofit, financial reporting, managerial accounting, and financial and operating audits for government and nonprofit entities. Professional accounting research written communication and ethical decision making emphasized.

Prerequisites: ACCT 33012 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 53095 SPECIAL TOPICS: ACCOUNTING

Special topics course that will be offered periodically with different topics and different faculty involved each time the course is offered. Prerequisite: Graduate standing and special approval.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 63022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING

A capstone course for the MSA program. Investigates issues confronting the accounting profession today by reviewing the past, examining the present and looking into the future. Topics covered include history and characteristics of the profession, regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research verbal, and written communication emphasized. Prerequisite: Graduate standing and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 63024 INFORMATION TECHNOLOGY AUDIT AND CONTROL

Examines the control and security of accounting information systems with an auditing perspective. Includes the role of IS audit function, IS auditing standards, system risks, application controls and current issues facing is auditors. Research, writing and ethics will be emphasized. Prerequisite: graduate standing; and ACCT 43010 and ACCT 43014 or 53014.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

**ACCT 63025 ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS**

Uses financial statements to analyze business strategy, accounting issues, finances and future prospects. Uses case studies to apply business valuation framework to security analysis, credit, corporate financing policies, and management communications. Research and writing will be emphasized. Prerequisite: ACCT 33001 or ACCT 63037; and graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Accounting

ACCT 63030 INTERNATIONAL ACCOUNTING

Study of reporting in United States capital markets for domestic and foreign firms; evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decision making. Interpersonal skills emphasized. Prerequisite: ACCT 33012; and graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Accounting

ACCT 63031 ADVANCED AUDITING THEORY AND PRACTICE

Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards on ethical considerations and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized. Prerequisite: ACCT 43010; and graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Accounting

ACCT 63032 ACCOUNTING THEORY, HISTORY AND INSTITUTIONS

Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. International and current issues also discussed. Written communication and ethical decision making emphasized. Prerequisite:

ACCT 33012 CORPORATE ACCOUNTING II

Accounting for long-term liabilities, debt and equity investments leases pensions and other post retirement benefits income tax allocation and owners' equity statement of cash flows. Verbal communication and

professional accounting research skills are emphasized. Prerequisite: cumulative 2.50 GPA; and accounting (ACCT) major; and ACCT 33001 and ACCT 33004. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Accounting

ACCT 63037 FINANCIAL ACCOUNTING FOR MANAGERIAL ACTION

In-depth study of financial accounting concepts and basic financial statements. Examination of significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision making. Prerequisite: Open only to MBA and MA students; and graduate standing. Cannot be used toward MSA degree. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Accounting

ACCT 63038 ACCOUNTING FOR MANAGERIAL ACTION AND EVALUATION

Review of cost accounting concepts and cost behavior. In-depth study of analyzing costs for pricing and product mix decisions; activity based cost systems; budgeting; planning and control issues; methods of remaining competitive in a global environment; compensation issues. Prerequisite: ACCT 63037 or 73037; and MBA and MA students only; and graduate standing. Cannot be used toward MSA degree. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Accounting

ACCT 63042 TAXATION OF CORPORATIONS AND SHAREHOLDERS

An in-depth study of tax law that pertains to corporations and shareholders; corporate formation, distributions, liquidation and reorganization. Tax research and verbal and written communication emphasized. Prerequisite: ACCT 43031 and graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Accounting

ACCT 63043 TAXATION OF PARTNERSHIPS AND PARTNERS

An in-depth study of formation, operation, termination and liquidation and other special problems of partnerships. Tax research and verbal and written communication emphasized. Prerequisite: ACCT 43033 or ACCT 53033; and graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate

Schedule Types: Lecture Department: Accounting

ACCT 63045 TAX RESEARCH AND PLANNING

Tax planning; research methodology and problems. Tax research and verbal and written communications emphasized. Prerequisite: ACCT 43033 or ACCT 53033; and graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Accounting

ACCT 63046 ADVANCED TAX ISSUES

Advanced tax coverage of C and S corporations and partnerships. The internal revenue code, treasury regulations and case law will be utilized in problem solving. Ethics, verbal communications and negotiating skills will be emphasized. Prerequisite: ACCT 43033 or 53033; and graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Accounting

ACCT 63092 INTERNSHIP

Supervised practical experience with public accounting firm, corporation, governmental, or not-for-profit organization. Periodic reports required. Prerequisite: enrollment in the M.S. in Accounting program; ACCT 33010 and 33012; and graduate standing. 3.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Practicum Department: Accounting

ACCT 63093 VARIABLE TITLE WORKSHOP IN ACCOUNTING

To be determined when a specific course is proposed for a particular term. Prerequisite: graduate standing and special approval. 1.000 TO 3.000 Credit hours 1.000 TO 3.000 Other hours Level: Graduate Schedule Types: Workshop Department: Accounting

ACCT 63098 RESEARCH IN ACCOUNTING

Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper which may extend beyond the semester. Prerequisite: graduate standing; and major in accounting. 1.000 TO 3.000 Credit hours 1.000 TO 3.000 Other hours Level: Graduate Schedule Types: Research Department: Accounting

ACCT 73022 PROFESSIONAL ISSUES AND ETHICS IN ACCOUNTING

A capstone course for the MSA program. Investigates issues confronting the accounting profession today by reviewing



the past, examining the present, and looking into the future. Topics covered include history and characteristics of the profession regulation of the profession, ethical challenges facing accountants and auditors, fraud and the future of the profession. Professional accounting research, verbal and written communications emphasized. Prerequisite: special approval and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 73024 INFORMATION TECHNOLOGY AUDIT AND CONTROL

Examines the control and security of accounting information systems with an auditing perspective. Includes the role of IS audit function, IS auditing standards, system risks, application controls, and current issues facing IS auditors. Research writing and ethics will be emphasized. Prerequisite: ACCT 43010; and ACCT 43014 or 53014; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 73025 ANALYSIS AND VALUATION OF BUSINESS USING FINANCIAL STATEMENTS

Uses financial statements to analyze business strategy, accounting issues, finances, and future prospects. Uses case studies to apply business valuation framework to security analysis, credit, corporate financing policies and management communications. Research and writing will be emphasized. Prerequisite: ACCT 33001 or 63037; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 73030 INTERNATIONAL ACCOUNTING

Study of reporting in United States capital markets for domestic and foreign firm's evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decision making. Interpersonal skills emphasized. Prerequisite: ACCT 33012; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 73031 ADVANCED AUDITING THEORY AND PRACTICE

Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of

professional judgment in applying auditing standards, on ethical considerations, and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision making emphasized. Prerequisite: ACCT 43010; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 73032 ACCOUNTING THEORY

Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. International and current issues also discussed. Written communication and ethical decision making emphasized. Prerequisite: ACCT 33012 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 73037 FINANCIAL ACCOUNTING FOR MANAGERIAL ACTION

In-depth study of financial accounting concepts and basic financial statements. Examination of significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making. Prerequisite: special approval and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 73038 ACCOUNTING FOR MANAGERIAL ACTION AND EVALUATION

Review of cost accounting concepts and cost behavior. In depth study of analyzing costs for pricing and product mix decisions activity based cost systems budgeting planning and control issues methods of remaining competitive in a global environment compensation issues. Prerequisite: special approval and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 73093 VARIABLE TITLE WORKSHOP IN ACCOUNTING

To be determined when a specific course is proposed for a particular term. Prerequisite: special approval and doctoral standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Workshop

Department: Accounting

ACCT 73098 RESEARCH IN ACCOUNTING

Review of sources, techniques and methodology. Individually selected topic is investigated and reported in formal paper which may extend beyond the semester. Prerequisite: doctoral standing; and major in accounting.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Accounting

ACCT 83031 AUDITING ISSUES

A seminar designed to provide doctoral students with the opportunity to broaden their understanding of financial and operational auditing theory and research. Prerequisite: ACCT 43010 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 83033 MANAGERIAL ACCOUNTING ISSUES

Library research and discussion will cover basic areas in cost/managerial accounting. Coverage will include a thorough understanding of the areas, the role of mathematical models, and emerging issues/problems. Emphasis will be placed on integrating the topical areas. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 83037 FINANCIAL ACCOUNTING ISSUES

Capstone theory course in which accounting conventions, principles and concepts of a currently controversial nature are explored and debated. Emerging issues in financial accounting reporting and research are examined. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

ACCT 83038 BASIC ACCOUNTING RESEARCH METHODOLOGY

Examination of basic research methodology and how the methodology is applied in accounting research. Introduction to statistical packages and databases. Research paper required. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Accounting

**ACCT 83091 SEMINAR-SELECTED ACCOUNTING TOPICS**

Topics vary with each offering, usually from the following: auditing, taxation, fund accounting, accounting systems and accounting education issues. Prerequisite: special approval and doctoral standing.
 3.000 TO 6.000 Credit hours
 3.000 TO 6.000 Other hours
 Level: Graduate
 Schedule Types: Seminar
 Department: Accounting

Accounting Technology (ACTT)**ACTT 11000 ACCOUNTING I FINANCIAL**

(Equivalent to ACCT 23020) Introduction to financial accounting, including principles generally accepted in preparation of accounting statements for users outside of the business organization. Prerequisite: None.
 4.000 Credit hours
 4.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Regional College

ACTT 11001 ACCOUNTING II-MANAGERIAL

(Equivalent to ACCT 23021) Introduction to managerial accounting, including accounting for manufacturing firms, budgeting, standard cost systems, direct costing, segment reporting and cost-volume-profit-analysis. Prerequisite: ACTT 11000.
 4.000 Credit hours
 4.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Regional College

ACTT 11003 PAYROLL ACCOUNTING

Introduction to the payroll function, including preparation of payroll and related federal, state and local tax forms required of all businesses. Both manual and computerized applications will be studied. Prerequisite: ACTT 11000.
 2.000 Credit hours
 2.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Regional College

ACTT 20012 ACCOUNTING SOFTWARE APPLICATIONS

A lecture/computer laboratory course using accounting, spreadsheet and word processing software. Prerequisite: ACTT 11001 and COMT 11000 or permission of full time ACTT faculty.
 3.000 Credit hours
 3.000 Other hours
 Level: Undergraduate
 Schedule Types: Combined Lecture/Lab
 Department: Regional College

ACTT 21000 ACCOUNTING III-FINANCIAL

An intensive and practical study of financial accounting principles pertaining to balance sheet and income statement accounts, and statement analyses. Prerequisite: ACTT 11001.
 3.000 Credit hours
 3.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Regional College

ACTT 21001 ACCOUNTING IV-FINANCIAL

Continuation of ACTT 21000. Also considers income statement accounts and financial statement analyses. Both manual and computerized applications will be studied. Prerequisite: ACTT 21000.
 3.000 Credit hours
 3.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Regional College

ACTT 21003 FUNDAMENTALS OF TAX PREPARATION

A non-technical presentation of federal income tax laws and regulations as they relate to individuals. Prerequisite: ACTT 11000.
 3.000 Credit hours
 3.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Regional College

ACTT 21006 INTRODUCTION TO CORPORATE TAX PREPARATION

An introduction to the preparation of corporation tax reports. Prerequisite: ACTT 21003.
 3.000 Credit hours
 3.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Regional College

ACTT 21063 INTRODUCTION TO COST ACCOUNTING

(Equivalent to ACCT 33063) Cost accounting concepts and systems; role of costs in decision making; budgeting concepts and procedures; analysis of revenue, cost and income variances. Prerequisite: ACTT 11001.
 3.000 Credit hours
 3.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Regional College

ACTT 21092 INTERNSHIP IN ACCOUNTING TECHNOLOGY

Supervised field experience requires minimum of 14 hours per week for unpaid work experiences or 20 hours per week for employment with pay. Prerequisite: ACTT 21000 and permission.
 2.000 TO 3.000 Credit hours
 3.000 Other hours
 Level: Undergraduate
 Schedule Types: Practicum

Department: Regional College

ACTT 21095 SPECIAL TOPICS: ACCOUNTING TECHNOLOGY

Special topics in accounting. Repeated registration permitted. Prerequisite: Permission.
 1.000 TO 3.000 Credit hours
 3.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Regional College

ACTT 21096 INDIVIDUAL INVESTIGATION-ACCOUNTING TECHNOLOGY

Independent in-depth research of an accounting topic supervised and coordinated by an accounting technology faculty member. Prerequisite: 12 credit hours of ACTT courses and permission.
 1.000 TO 3.000 Credit hours
 3.000 Other hours
 Level: Undergraduate
 Schedule Types: Individual Investigation
 Department: Regional College

Adolescent/Adult Education (ADED)**ADED 32142 PRINCIPLES OF TEACHING ADOLESCENTS**

Orientation to adolescence and the teaching-learning process. This course includes 30 field/clinical hours in an urban setting. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisites: ITEC 19525 and EDPF 29525.
 3.000 Credit hours
 3.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture
 Department: Teaching, Learning and Curriculum Studies
 Course Attributes: Writing Intensive Course

ADED 32268 THE SECONDARY SCHOOL MATHEMATICS CURRICULUM

The secondary school mathematics curriculum will be examined. Students textbooks and recommendations will be investigated. This course includes 30 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: ADED 32142 and MATH 22005.
 3.000 Credit hours
 3.000 Lecture hours
 Level: Undergraduate
 Schedule Types: Lecture



Department: Teaching, Learning and Curriculum Studies

ADED 32275 SOCIAL STUDIES EDUCATION AND THE SOCIAL SCIENCES

First of two special methods courses on teaching social studies at the secondary level. Focuses on achieving the purpose of social studies through attention to instruction, planning, curriculum and assessment. Prerequisite: ADED 32142 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ADED 32277 TEACHING SCIENCE IN SECONDARY SCHOOLS

Goals, methodology and resources for effective teaching of science to adolescents and young adults. Prerequisite: ADED 32142.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ADED 42196 INDIVIDUAL PROJECT IN ADOLESCENT EDUCATION

2.000 TO 4.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Teaching, Learning and Curriculum Studies

ADED 42268 TEACHING OF MATHEMATICS IN SECONDARY SCHOOLS

Methodology and materials for effective teaching of secondary school mathematics will be discussed and implemented in field experiences. Course includes 46 field/clinical hours. Mathematics courses through MATH 22005. Prerequisite: ADED 32268.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ADED 42275 TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS

An advanced special methods course designed to prepare future social studies teachers for student teaching and their entry year into the profession. Addresses a range of topics and issues in an in-depth manner through project-oriented learning activities. Prerequisite: ADED 32275 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ADED 42277 TOPICS IN SECONDARY SCHOOL SCIENCE TEACHING

Analysis of trends in science teaching and materials and methods for introducing topics from the history of science and from health education. Prerequisite: ADED 32277 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ADED 42278 ASSESSMENT IN LANGUAGE ARTS

Models, principles and strategies for assessing student learning in integrated English language arts. Practice with multiple assessment measures including portfolios for literature language and composition studies. Prerequisite: ADED 32147 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ADED 42292 FIELD WORK PRACTICUM

A minimum 96-hour field experience in a middle or high Department. Observations, interviews, designing and teaching of lessons and debriefing. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place. Prerequisites: Minimum grade of C (2.0) in ADED 32268 or 32275 or 32277 or SEED 32147 and admission to advanced study. Corequisite: ADED 42268 or 42275 or 42277 or 42278.

1.000 TO 4.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Teaching, Learning and Curriculum Studies

ADED 42295 SPECIAL TOPICS IN ADOLESCENT/ADULT EDUCATION

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ADED 42357 SECONDARY STUDENT TEACHING

Provides a 12-week student-teaching experience. See "student teaching" section of the undergraduate catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the

semester in which student teaching/internship will take place. Prerequisite: Admission to advanced study.

9.000 Credit hours

9.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Teaching, Learning and Curriculum Studies

ADED 42358 SECONDARY STUDENT TEACHING

Provides a 10-week student teaching experience. See student teaching section of the undergraduate catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/internship will take place. Prerequisite: ADED 42292 and admission to advanced study.

4.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Teaching, Learning and Curriculum Studies

ADED 49525 INQUIRY INTO PROFESSIONAL PRACTICE

Reflection on teaching for the purpose of instructional improvement. Emphases are placed on preparing implementing and assessing a curricular unit collaborative problem solving conducting an action research project and creating a portfolio. Prerequisite: admission to advanced study. Corequisite: ADED 42358.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ADED 52267 IMPROVING MATHEMATICS INSTRUCTION FOR ADED

Methodology and materials for effective teaching of secondary school mathematics. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

Aeronautics (AERN)

AERN 15000 INTRODUCTION TO AERONAUTICS

Introduction to aeronautical and aerospace technology including historical development, underlying science and technical applications. The past, present and future social, economic, technical and political impact of aviation are also explored. Prerequisite: none.



3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 15100 WOMEN AND MINORITIES IN AVIATION

Course examines the roles and contributions of women and minorities in aviation and the historical, social, technological and political impact they have had on aviation and the aerospace industry. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 15250 FAA ORIENTATION

Introduction to the Federal Aviation Administration with particular emphasis on its role and impact on air traffic management and the National Airspace System (NAS). Course addresses the unique aspects and requirements of federal employment, as well as federal regulations affecting flight operations and the FAA's associated supporting agencies. Prerequisite: AERN 15000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 15740 ELEMENTS OF FLIGHT THEORY

Basic instruction in all areas which gives the student aeronautical knowledge required for a private pilot certificate. Corequisite: TECH 15741.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 15741 PRIVATE PILOT FLIGHT

Flight course designed to fulfill FAA requirements for private pilot certificate. Prerequisite: TECH 15000 and 2.5 GPA. Corequisite: TECH 15740.
3.000 Credit hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson
Department: Technology

AERN 15742 PRIVATE PILOT HELICOPTER FLIGHT

Flight course designed to fulfill Federal Aviation Administration (FAA) requirements for the private pilot helicopter certificate. Prerequisites: 2.0 cumulative GPA and TECH 15740. Corequisite: TECH 35101.
3.000 Credit hours
5.500 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

AERN 15743 PRIVATE PILOT HELICOPTER FLIGHT ADD-ON

Flight course designed to fulfill Federal Aviation Administration (FAA) requirements for the private pilot helicopter certificate. Prerequisites: 2.0 cumulative GPA and TECH 15740 and 15741. Corequisite: TECH 35101.
2.000 Credit hours
4.860 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

AERN 25250 ELEMENTS OF AVIATION WEATHER

Aviation weather provides an up-to-date and expanded course for professional pilots and others whose interest in weather is primarily in its application to flight. Prerequisite: AERN 15000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 25350 FUNDAMENTALS AIR TRAFFIC CENTER

Introduction to the National Airspace System (NAS) and the orders, manuals and procedures associated with the purposes and directives of the air traffic control environment to include purposes and responsibilities of the ATC system. Prerequisite: AERN 15250.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 25351 FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY

Introductory laboratory course on air traffic management and the National Airspace System, the orders, manuals and procedures associated with the purposes and directives of the air traffic control environment. To include purposes and responsibilities of the ATC system. Prerequisite: AERN 15250. Corequisite: AERN 25350.
1.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Technology

25743 COMMERCIAL PILOT FLIGHT I

Advanced flight course providing flight instruction for the commercial pilot. Primary emphasis is on cockpit resource management, advanced navigational practices and basic instrument instruction. Prerequisites: AERN 15740 and 15741.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson
Department: Technology

AERN 35001 AIRCRAFT FABRICATION

The study and laboratory practice of government approved procedures used in the fabrication, repair and testing of certificated aircraft. Prerequisites: AERN 15000 and PHY 13001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 35020 AIRCRAFT PROPULSION SYSTEMS

A study of basic reciprocating and gas turbine engine theory. Course investigates powerplant construction, component function, including propeller and fuel systems, ancillary systems that support aircraft propulsive systems and performance characteristics. Prerequisite: AERN 15000 and PHY 13011.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 35030 INTRODUCTION TO CORPORATE AVIATION

Introduces students to the business and corporate sectors of commercial aviation. Examines business and corporate aviation from the joint perspectives of operations and maintenance management as well as flight operations. Prerequisite: AERN 15000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 35040 AIRCRAFT SYSTEMS I

In-depth study of various aircraft systems including electrical systems, environmental control systems, and fuel systems as applied to aircraft. Prerequisite PHY 23101; or PHY 13011 and 13012; and AERN 15000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 35095 SPECIAL TOPICS IN AERONAUTICS

Specialized offerings of interest in response to emerging or needed curricular needs in aeronautics. Topics will be announced in the schedule of classes. Repeat registration permitted. Prerequisite: Aeronautics (AERN) major and sophomore standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 35101 HELICOPTER THEORY AND OPERATION

Study of helicopter flight and operations that includes rotor system dynamics, control



functions, major components, operation and performance. Prerequisites: AERN 15000 and 25250.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 35150 AIRCRAFT STRUCTURES

Aircraft structural design investigations dealing with theory and applications in aviation. Prerequisites: PHY 13011 and 13012; and AERN 15000.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 35340 AIRPORT MANAGEMENT

Introduction to the many functions that are involved in the operation and management of an airport. Includes an analysis of the development of the airport- airway system, airport legislation, airport planning and airport operations. Prerequisite: AERN 15000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 35341 AIR TRANSPORTATION SYSTEMS

Descriptive course in airline operations as seen from the air carrier's business perspective. Emphasis is on business practices and techniques unique to aviation. Prerequisite: AERN 15000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 35342 AIR TRAFFIC CONTROL

Study of the fundamental concepts of air traffic control and airspace management in the National Airspace System (NAS); with an emphasis on the interaction between terminal and en route traffic control functions. Prerequisites: AERN 15000 and 15740 and 25250.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 35343 EN ROUTE AIR TRAFFIC CONTROL

Introduction to en route operations of air traffic control. To include an understanding of en route charts, radio procedures and use of weather forecasting products. Prerequisites: AERN 25250 and 25350 and 35342. Corequisite: AERN 35344.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 35344 AIR TRAFFIC CONTROL

Laboratory course with real-world, scenario-based introduction to en route operations of air traffic control. To include an understanding of en route charts, radio procedures and the use of weather forecasting products. Prerequisite: AERN 25250 and 25350 and 35342. Corequisite: AERN 35343.

1.000 Credit hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Technology

AERN 35644 INSTRUMENT FLIGHT THEORY

Comprehensive instruction presenting theoretical and practical aspects of instrument and weather flying.

Prerequisites: AERN 15740 and TECH 25250. Corequisite: AERN 35645.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 35645 INSTRUMENT PILOT FLIGHT

Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA instrument rating. Prerequisites: AERN 25250 and 25743.

Corequisite: AERN 35644.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 35646 INSTRUMENT HELICOPTER FLIGHT

Flight course designed to fulfill FAA requirements for the Instrument Helicopter Rating. Prerequisite: AERN 15742 or 15743; special approval; and minimum cumulative 2.00 GPA. Corequisite: AERN 35644.

2.000 Credit hours

4.860 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 35647 COMMERCIAL PILOT FLIGHT II

Comprehensive flight course for the professional pilot candidate with emphasis on commercial flight maneuvers and instrument flight review. Prerequisites: AERN 35644 and 35645.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 35648 INSTRUMENT HELICOPTER FLIGHT ADD-ON

Flight course designed to fulfill FAA requirements for the Instrument Helicopter

Rating. Prerequisite: AERN 35645 and minimum cumulative 2.00 GPA.

Corequisite: AERN 35101.

1.000 Credit hours

2.430 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 35746 COMMERCIAL PILOT THEORY

Comprehensive instruction covering all areas necessary to exercise the privileges of a commercial pilot. Prerequisites: AERN 35644 and 35645.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 35747 COMMERCIAL PILOT FLIGHT III

Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA commercial pilot certificate. Major emphasis on complex aircraft operations. Prerequisites: AERN 35644 and 35645. Pre/Corequisite: AERN 35647. Corequisite: AERN 35746.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson

Department: Technology

AERN 35748 COMMERCIAL PILOT HELICOPTER FLIGHT ADD-ON

Flight course designed to fulfill Federal Aviation Administration (FAA) requirements for the commercial pilot helicopter certificate. Prerequisites: 2.0 cumulative GPA; and AERN 35747; and AERN 15742 or 15743. Corequisite: AERN 35101.

2.000 Credit hours

4.860 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 35749 COMMERCIAL PILOT HELICOPTER FLIGHT

Flight course designed to fulfill FAA requirements for the Commercial Pilot Helicopter certificate. Prerequisite: AERN 15742 or 15743; and minimum cumulative 2.00 GPA. Corequisite: AERN 35746.

3.000 Credit hours

5.500 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 45030 AIRCRAFT SYSTEMS II

Application and performance of various electrical, mechanical, hydraulic and computer systems as applied to aircraft. Prerequisite: AERN 35040.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

Course Attributes: Writing Intensive Course

**AERN 45092 AERONAUTICAL INTERNSHIP/COOPERATIVE EDUCATION**

(Repeatable for a total of 6 hours) Work experience in aerospace/aviation industry or related activity, laboratory or student professional organization. Prerequisite: special approval.

1.000 TO 2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Technology

AERN 45096 INDIVIDUAL INVESTIGATION IN AERONAUTICS

Work study of an individual nature on a topic relating to professional aviation. Repeatable for a total of 6 hours.

Prerequisite: Sophomore standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Technology

AERN 45099 AERONAUTICAL STUDIES CAPSTONE

An in-depth study of the student's area of focus within aeronautical studies, culminating to a senior level project. At the discretion of the aeronautics faculty, students may substitute another capstone course for this course. Students must pass this capstone with a grade of C (2.0) or better in order to graduate. Prerequisite: senior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Senior Project/Honors

Thesis

Department: Technology

AERN 45100 OPERATIONAL PLANNING IN AVIATION

Focus on both airport and airline operations through planning, design and management. Students function as project managers and work with simulation to run their own airport and airline with respect to financial and economic variables. Prerequisites: AERN 35340 and 35341; and FIN 36053.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45121 ADVANCED AEROSPACE PROPULSION

A thorough study of propulsion systems used in the aeronautics industry beginning with an introduction to the reciprocating engine and ending with the study of modern rocketry. Emphasis is given to advanced systems such as gas turbine engines and hypersonic propulsion systems.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45130 PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT

A study of the interaction of the human body with flight and those human factors that affect flight operations. Prerequisite: AERN 15000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45135 AVIATION SAFETY THEORY

Provides an in-depth study into aviation human safety theories and the basics of risk and safety management. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45150 APPLIED FLIGHT DYNAMICS I

An applied aircraft flight dynamics course that demonstrates aircraft, engine and propeller performance with the overall flight performance and stability of the typical subsonic airplane. Emphasis is placed on the aerodynamics of flight. Prerequisites: MATH 11012 or MATH 12002; and PHY 13011.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 45151 APPLIED FLIGHT DYNAMICS II

Aerodynamics, flight dynamics, and flight performance of high performance aircraft. Course includes supersonic aerodynamics, flight stability and handling, and an in-depth investigation and analysis of flight performance parameters including lift, drag, load factor, climb performance, and turn performance. Prerequisite: AERN 45150.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 45200 STRATEGIC AVIATION MANAGEMENT

Serves as the capstone course for the aviation management area of concentration in aeronautics. As such, it is designed to address evolving issues and challenges in aviation management with a particular emphasis on airlines and airports through an application of previously mastered aviation management courses. Students must pass the course with a minimum grade of "C" (2.0). Prerequisite: AERN 35340 and AERN 35341 and AERN 45100; senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45250 AVIATION LAW

Involves a study of the origins of Western jurisprudence, common law and aviation law as an integral part of law in the U.S. Also introduces international aviation law by lateral agreement as well as U.S.

Constitutional law and its amendments as they relate to the structure and process of aviation law. Criminal and civil law as they relate to civil aviation are also addressed. Case studies are included. Prerequisite:

AERN 15000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45291 AEROSPACE SENIOR SEMINAR

Seminar on selected topics relating to problems, issues and conditions of employment within aviation. Prerequisite: Aeronautics (AERN) major and senior standing.

1.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Technology

AERN 45300 AIR TRAFFIC CONTROL CAPSTONE

Designed to prepare the student for the AT-Basics, AT-SAT, and to act as the culminating experience for the air traffic control program of study. Includes a combination of practical terminal and en route operations. A grade of "C" or higher must be achieved in order to graduate and receive a CTI endorsement. Prerequisites: AERN 45320 and 45321.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 45320 AIR TRAFFIC CONTROL II

Advanced study of the concepts of air traffic control and airspace management in the National Airspace System (NAS), with an emphasis on tower and terminal operations.

Prerequisite: AERN 35342. Corequisite:

AERN 45321.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45321 AIR TRAFFIC CONTROL II LABORATORY

Simulator-based laboratory that includes air traffic control experiences that integrate tower and terminal control procedures.

Prerequisite: AERN 35342. Corequisite:

AERN 45320.

1.000 Credit hours



2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Technology

AERN 45340 AIRCRAFT MAINTENANCE

Fundamentals of aircraft maintenance and resolving maintenance problems on the flight line. Prerequisite: Aerospace (AERO) major and senior standing and special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

AERN 45343 EN ROUTE AIR TRAFFIC CONTROL II

Advanced course on en route air traffic operations with emphasis on current and emerging practices in the National Airspace System (NAS). Course explores emerging paradigms in the Next Generation (NextGen) Air Traffic System. Prerequisite: AERN 35342. Corequisite: AERN 45344.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 45344 EN ROUTE AIR TRAFFIC CONTROL II LABORATORY

Simulator-based advanced practical course on en route air traffic operations, with emphasis on current and emerging practices in the National Airspace System (NAS). Course explores emerging paradigms in the Next Generation (NextGen) air traffic system. Prerequisite: AERN 35342. Corequisite: AERN 45343.
1.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Technology

AERN 45349 SYSTEMS MAINTENANCE AND RELIABILITY

Combines theories of systems and operations with practical experience to meet FAA standards for an airframe and power plant license (300 hours shop experience). Prerequisite: TECH 45340.
5.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 45350 AVIONICS

A study of aviation electronic systems in flight vehicles that pertain to communication, navigation and air traffic control systems. Prerequisites: PHY 13011 and 13012; and AERN 15000; and TECH 21021.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 45648 THEORY OF FLIGHT INSTRUCTION

Detailed fundamentals of teaching flight and ground instruction and the analysis of flight techniques, in order to meet requirements of FAR's part 61.185(a). Prerequisites: AERN 35040, 35746, 35747 and 45150. Corequisite: AERN 45649.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

AERN 45649 FLIGHT INSTRUCTOR/AIRPLANES

Flight course with emphasis on instructing techniques in aircraft from right seat. Includes student evaluation techniques to meet FAR requirements for CFI. Prerequisites: AERN 35746 and 35747. Corequisite: AERN 45648.
2.000 Credit hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson
Department: Technology

AERN 45650 CERTIFIED FLIGHT INSTRUCTOR HELICOPTER FLIGHT

Flight course designed to fulfill FAA requirements for the Flight Instructor Helicopter certificate. Prerequisites: 2.0 cumulative GPA; and AERN 35746 and 35749. Corequisite: AERN 45648.
2.000 Credit hours
2.220 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

AERN 45651 FLIGHT INSTRUCTOR-INSTRUMENTS

Flight course with emphasis on flight instructing techniques involved with instrument flight and ATC procedures. Student evaluations included. Prerequisites: AERN 45648 and 45649.
2.000 Credit hours
2.000 Lecture hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Lecture, Private Lesson
Department: Technology

AERN 45652 CERTIFIED FLIGHT INSTRUCTOR INSTRUMENT HELICOPTER FLIGHT

Flight course designed to fulfill FAA requirements for the Flight Instructor Instrument Helicopter certificate. Prerequisites: 2.0 cumulative GPA; and AERN 35646 or 35648; and AERN 45650 or 45659.
1.000 Credit hours
1.100 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

AERN 45653 MULTI-ENGINE PILOT FLIGHT

The course provides the required ground and flight instruction necessary to qualify

students for the multi-engine rating from the FAA. Prerequisite: AERN 35747.

1.000 Credit hours
1.000 Lecture hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Lecture, Private Lesson
Department: Technology

AERN 45654 CERTIFIED FLIGHT INSTRUCTOR HELICOPTER FLIGHT ADD-ON

Flight course designed to fulfill FAA requirements for the Flight Instructor Helicopter Add-on certificate. Prerequisites: 2.0 cumulative GPA; and AERN 45649.
1.000 Credit hours
1.100 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

AERN 45655 ADVANCED MULTI-ENGINE PILOT FLIGHT

Ground flight instruction for proficiency and required hours in preparation for multi-engine instruction. Prerequisite: AERN 45653.
1.000 Credit hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson
Department: Technology

AERN 45656 CERTIFIED FLIGHT INSTRUCTOR INSTRUMENT HELICOPTER FLIGHT ADD ON

Flight course designed to fulfill FAA requirements for the Flight Instructor Instrument Helicopter Add-on certificate. Prerequisites: 2.0 cumulative GPA; and AERN 45651.
1.000 Credit hours
1.100 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

AERN 45657 MULTI-ENGINE FLIGHT INSTRUCTOR

This course provides the necessary ground and flight instruction to professionally qualify students for the multi-engine instructor rating by the FAA. Prerequisite: AERN 45649 and TECH 45655.
1.000 Credit hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson
Department: Technology

AERN 45659 BASIC ACROBATIC FLIGHT

Consists of 15 hours of ground school and 15 hours of flight training reviewing commercial maneuvers and introducing basic aerobatic maneuvers and related classroom theory. Prerequisites: 2.25 GPA and special approval.
1.000 Credit hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson
Department: Technology

**AERN 45700 AIRCRAFT DESIGN**

Preliminary design of a fixed-wing aircraft for a specific mission: weight estimates; wing platform, airfoil and propulsion; selection airframe configuration and layout design; performance analysis; and overall systems integration. Prerequisites: AERN 15000; and TECH 21021; and PHY 13011 and 13012. Pre/Corequisites: AERN 45030 and 45150 and 45350.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45710 TURBINE ENGINE THEORY AND OPERATION

An in-depth study of the theory, operation and performance of turbine turboprop engines and associated systems.

Prerequisite: AERN 35020.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45711 TURBINE ENGINE THEORY AND OPERATION LABORATORY

Laboratory using a turboprop flight simulator to provide instruction and demonstration of the operating characteristics and procedures associated with turbine/turboprop engines.

Prerequisite: AERN 35020. Pre/corequisite: AERN 45710.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson

Department: Technology

AERN 45720 CREW RESOURCE MANAGEMENT

An in-depth study of the common principles of aviation crew resource management (CRM) and human factors as utilized by air transport flight crews. Prerequisite: AERN 45130.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45721 CREW RESOURCE MANAGEMENT LABORATORY

Flight simulator-based laboratory that includes flight simulator experiences that integrate CRM and LOFT in a multi crew environment. Prerequisite: AERN 45130. Pre/corequisite: AERN 45720.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 45730 APPLIED TRANSPORT CATEGORY AIRCRAFT SYSTEMS

Course examines various systems in use on air transport aircraft. The course emphasis is on the principles, operation and limitations of complex, integrated

systems found in modern aircraft.

Prerequisite: AERN 35020 and 35040 and 45030.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

AERN 45740 FLIGHT MANAGEMENT SYSTEMS

Course examines various advanced avionics systems used on air transport type aircraft. The course emphasis is on the principles, operation and limitations of integrated avionics related to the "glass cockpit" found on modern aircraft.

Prerequisite: AERN 35040 and 45030 and 45350.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 45791 AVIATION SECURITY AND POLICY SEMINAR

Examines policies, practices, procedures and regulatory provisions developed to create and enhance security in civil aviation with a special emphasis on airlines, airports, airspace and agencies responsible for civil aviation security. Prerequisite: AERN 35340 and 35341 and 35342 and 45250.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Technology

Course Attributes: Writing Intensive Course

AERN 55150 APPLIED FLIGHT DYNAMICS I

A course relating aircraft, engine and propeller performance to the overall flight performance of the typical light airplane. Includes flight test project participation.

Special course fee \$10 cr./Hr. Subject to change. Prerequisite: MATH 11012 or

MATH 12002, PHY 13001 and 13002 or PHY 23101 and 23102, and AERN 15000;

and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 55350 AVIONICS

A descriptive course that covers electronic systems in aviation, particularly from the standpoint of aircraft equipment its operational theory and practical use by the pilot. Prerequisite: PHY 13001 and 13002 or PHY 23101 and 23102; AERN 15000;

and TECH 21021; and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Technology

AERN 55700 AIRCRAFT DESIGN

Preliminary design of a fixed-wing aircraft for a specific mission; weight estimates wing plan form airfoil and, propulsion selection airframe configuration and layout design performance analysis and overall systems integration. Prerequisite: PHY 13001 and 13002 or PHY 23101 and 23102; AERN 15000; and TECH 21021. Pre/corequisites: AERN 45030, and 45350 and 45150; and graduate standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Technology

AERN 55791 AVIATION SECURITY AND POLICY SEMINAR

Analytical review of policies, practices procedures and regulatory provisions designed to create and enhance security in civil aviation with a special emphasis on the impact of emerging technologies on aviation security. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Technology

AERN 61091 AEROSPACE SEMINAR

Discussions of selected technical topics related to aerospace technology. Repeat registration permitted for three semesters maximum. Prerequisite: Graduate standing.

1.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Technology

AERN 65300 AIRLINE TRANSPORTATION OPERATIONS

The study of scheduled and nonscheduled airline transport operations under federal air regulations (FAR).135. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Technology

AERN 65496 AEROSPACE TECHNOLOGY

Individual investigation of selected topic from the field of aerospace. Prerequisite: Special approval and graduate standing.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Technology

Aviation Maintenance Technology (AMRT)

AMRT 10010 FAA REGULATIONS AND DOCUMENTATION

FAA history, inspections, documentation and aircraft drawings. Comprehensive



course for the AMRT candidate to meet the requirements for FAA certification.

Corequisite: AMRT10040.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

AMRT 10020 AIRCRAFT TOOLS AND TECHNIQUES

Welding for the aviation maintenance technician and understanding of fluid lines and fittings. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Corequisite: AMRT 10010.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

AMRT 10030 AIRFRAME I

Understanding aircraft systems and corrosion control. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Corequisite: AMRT 10010.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

AMRT 10040 AVIATION POWER PLANT I

Study of aviation engines and propellers. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Corequisite: AMRT 10010.

4.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

AMRT 20010 AIRFRAME II

Understanding aircraft structures. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Prerequisite: AMRT10030.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

AMRT 20020 AIRFRAME III

Advanced airframe course. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Corequisite: AMRT 20010.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

AMRT 20030 AVIATION ELECTRONICS

Electronics and systems for the aviation maintenance technician. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Prerequisite: EERT 12001.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

AMRT 20040 PRINCIPLES OF FLIGHT

Nature of light, sound and aerodynamics.

Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Prerequisite: PHY 12202.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

AMRT 20050 PRACTICUM IN ADVANCED AVIATION

Aviation maintenance experience.

Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Prerequisite: AMRT 10040.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Regional College

AMRT 20060 AVIATION POWER PLANT II

Further studies into aircraft engines.

Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Prerequisite: AMRT 10040.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

American Studies (AMST)

AMST 10001 INTRODUCTION TO AMERICAN STUDIES

Exposure to culture theory, analysis of major patterns and periodization in American culture. Required for American studies majors; also for elective credit.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AMST 40095 SPECIAL TOPICS

Selected subjects and/or themes in American culture. Prerequisite: Junior standing and permission.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AMST 40096 INDIVIDUAL INVESTIGATION

Individual research project. Prerequisite: Senior standing and permission.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Arts and Sciences

AMST 40197 SENIOR COLLOQUIUM

Intensive research into comparative culture pattern or theme, reading and discussion.

Prerequisite: Senior standing and permission.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Arts and Sciences

Anthropology (ANTH)

ANTH 18210 INTRODUCTION TO CULTURAL ANTHROPOLOGY

Exploration of human diversity through the analysis of world cultures. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Anthropology

Course Attributes: Diversity Course-Global, Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

ANTH 18420 INTRODUCTION TO ARCHAEOLOGY

Archaeology is the study of the human past using material remains. The themes of time change and human diversity will be emphasized as students learn about ancient societies and how they teach us about ourselves. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Anthropology

Course Attributes: Diversity Course-Global, Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

ANTH 18630 HUMAN EVOLUTION

Introduction to basic evolutionary theory with a focus on the emergence and progressive development of the human species during the last five million years. Includes related topics such as primate behavior and human variation. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Anthropology

Course Attributes: Kent Core-Basic Sciences, TAG Social/Behavior Sciences, Transfer Module-Natural Sciences

ANTH 18631 ISSUES IN HUMAN EVOLUTION

Laboratory study of primate and human anatomy; human paleontology; Mendelian, molecular and human genetics; and primate behavior, ecology and conservation. Pre or corequisite ANTH 18630.



1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Anthropology
Course Attributes: Kent Core-Basic Sciences

ANTH 38050 THEORY IN CULTURAL ANTHROPOLOGY

Development of anthropological thought.
Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 38096 INDIVIDUAL INVESTIGATION IN ANTHROPOLOGY

Readings and/or research supervised by a member of the anthropology staff.
Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Anthropology

ANTH 38240 CULTURE AND PERSONALITY

Comparative cross-cultural socialization and personality development; group and national character; relationship of personality to politics, social and occupational roles. Prerequisite: ANTH 18210 or SOC 12050.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology
Course Attributes: Diversity Course-Global

ANTH 38250 RELIGION: A SEARCH FOR MEANING

How human beings search for meanings in religious experience; the universality and cultural conditioning of this phenomenon.
Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 38292 FIELD WORK IN CULTURAL ANTHROPOLOGY

Practical experience carrying out field research in cultural anthropology under the supervision of members of the anthropology faculty. Prerequisite: ANTH 18210 or SOC 12050.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 38420 PREHISTORY: URBANISM

Survey of evolution of urban society, emphasizing development of food production, village-farming community and

urban life in old and new worlds.
Prerequisite: ANTH 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 38430 LITHICS

History of chipped stone flint working and tool making is traced from man's earliest beginnings through the spread of ground stone tools. These developments are examined chronologically spatially and functionally. Prerequisite: ANTH 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 38480 ARCHAEOLOGICAL ANALYSIS

Methods necessary for the description and laboratory analysis of prehistoric remains. Course will include laboratory exercises as well as class lectures. Prerequisite: ANTH 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology
Course Attributes: Writing Intensive Course

ANTH 38490 QUANTITATIVE ANTHROPOLOGY

Introduces the quantitative description of numerical data, provides an understanding of the basis of probability theory and statistical inference and acquaints the student with the role of computers in anthropology. Prerequisite: ANTH 18420 or 18630 or 38630.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 38492 FIELD WORK IN ARCHAEOLOGY

Field and laboratory techniques in archaeological research. Prerequisite: Permission.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 38630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY

Review of fundamental subfields of modern biological anthropology, including human population, genetics, primate paleontology, human evolution and modern human taxonomy and variation. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 38680 PRIMATE SOCIETIES

This course will be a survey of the behavior of living primates. Topics covered include reproductive and foraging strategies, social structure and primate conservation. Antecedent human behavior will also be considered. Prerequisite: ANTH 18630 or 38630.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY

Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group. Prerequisite: Special approval.
1.000 TO 6.000 Credit hours
1.000 TO 6.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Anthropology

ANTH 48095 SPECIAL TOPICS IN ANTHROPOLOGY

Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled. Prerequisite: ANTH 18210 or 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48210 CULTURE AND COMMUNICATION

Relationship between language and culture. Covers basic principles of formal linguistics and their use in anthropology case studies from ethnography of speech. Prerequisite: ANTH 18210 or SOC 12050.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48212 KINSHIP AND SOCIAL ORGANIZATION

This course employs cross-cultural approaches to the understanding of marriage, family organization, and descent and kinship systems. Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology
Course Attributes: Diversity Course-Global

ANTH 48214 POLITICS OF CULTURE

Addresses the way in which culture has been politicized, and looks at such issues as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas. Prerequisite: none.
3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology
Course Attributes: Writing Intensive Course

ANTH 48220 CULTURAL ECOLOGY

Analysis of the relationship between socio-cultural systems and the physical-biological environment. Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48225 ARCHAEOLOGY OF DEATH

From excavations of prehistoric burial mounds to studies of colonial gravestones, the archaeology of death has always occupied a prominent place in anthropological research. The course explores approaches to diverse meanings of life and death. Prerequisite: ANTH 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48230 SOCIO-CULTURAL CHANGE

Analysis of institutional change where peoples of different cultures are in sustained contact. Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48240 THE SYMBOLIC IMPERATIVE

Studies the problem of cultural meanings from the perspective of symbols: the objects, persons, relations and acts through which people communicate with each other and perceive order in their cultures. Prerequisite: ANTH 18210 or SOC 12050.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48250 CULTURE AND CURING

Examination of the relationship between cultural beliefs about the nature of reality and the essence of humanity, and the causation and alleviation of disease. Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology
Course Attributes: Diversity Course-Global

ANTH 48260 CULTURE CONFLICT

Analyzes structured conflict situations between widely different cultures, both simple and complex, including intertribal

conflict, colonial conflict and problems arising from contact between dominant and subdominant social systems. Prerequisite: ANTH 18210.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology
Course Attributes: Diversity Course-Global

ANTH 48270 NATIVE PEOPLES OF NORTH AMERICA

Comparative analysis of North American Indian peoples and cultures with special reference to linguistic groupings, cultural areas and contemporary issues. Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48291 SEMINAR IN REVOLUTION AND CULTURE CHANGE

The seminar deals with the interrelationship between culture and revolution since antiquity. The main focus is on dramatic and abrupt culture change. Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Anthropology

ANTH 48391 SEMINAR IN HISTORY OF ANTHROPOLOGY

Seminar focusing on the development of anthropology within the intellectual and historical context from the height of the enlightenment to the close of World War II. Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Anthropology

ANTH 48410 STONE AGE ARCHAEOLOGY

Survey of Old World cultural history, using archaeological data. Stresses the period of three million years ago to 10,000 years ago. Prerequisite: ANTH 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48420 ARCHAEOLOGY OF NORTH AMERICA

Survey of major North American and Mexican archaeological sequences with emphasis on inter-areal relationships. Prerequisite: ANTH 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48425 ANCIENT MESOAMERICA

Comparative analysis of Mesoamerican societies from the arrival of the first Americans over 10,000 years ago to European colonization in the 16th century A.D., including major pre-Columbian civilizations. Prerequisite: ANTH 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48440 ARCHAEOLOGY OF ANCIENT OHIO

Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history. Prerequisite: ANTH 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48450 STATES AND EMPIRES

This course presents a comparative analysis of both old and new world case histories to explore definitions, causal explanations and organizational parameters associated with prehistoric state and empire level societies. Prerequisite: ANTH 18420.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48630 PACIFIC ISLAND CULTURES

Peoples and characteristics of culture areas of Pacific Islands, including Polynesia, Melanesia and Micronesia with analysis of several representative cultures from these areas. Prerequisite: ANTH 18210.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology
Course Attributes: Diversity Course-Global

ANTH 48692 FIELD WORK IN BIOLOGICAL ANTHROPOLOGY

Can be applied to any bio-anthropology field of study and off-campus activity, ranging from museum work to U.S. and international research projects. Prerequisite: Special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Anthropology

ANTH 48810 HUMAN PALEONTOLOGY

Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors. Prerequisite: ANTH 38630.
3.000 Credit hours
3.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48820 HUMAN MUSCULO-SKELETAL SYSTEM

A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy biomechanics and estimation of age and sex from isolated bones. Prerequisite: ANTH 38630.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48830 HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION

How "unique" is human behavior? Using an evolutionary perspective, we will explore the evolution of human mating systems and parental investment. Prerequisite: ANTH 18630 or 38630 or BSCI 30156.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology
Course Attributes: Diversity Course-Global, Writing Intensive Course

ANTH 48835 PRIMATE ECOLOGY AND CONSERVATION

Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival. Prerequisite: ANTH 18630 or 38630 or 38680 or BSCI 10120.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 48840 NATURAL SELECTION IN PERSPECTIVE

The course provides an in-depth introduction into the theory of natural selection by reading both Darwin's original work and recent interpretations.

Prerequisite: ANTH 18630 or 38630 or BSCI 10120.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY

Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group. Prerequisite: Graduate standing.

1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Anthropology

ANTH 58095 SPECIAL TOPICS IN ANTHROPOLOGY

Offered irregularly when unusual resources and/or opportunities permit. Prerequisite: 6 graduate hours toward M.A. in Anthropology. Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58210 CULTURE AND COMMUNICATION

Study of the relationship between language and culture. Covers the basic principles of formal linguistics and their use in anthropology case studies from the ethnography of speech. Prerequisite: Permission. Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58212 KINSHIP AND SOCIAL ORGANIZATION

This course employs cross-cultural approaches to the understanding of marriage, family organization, descent and kinship system. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58214 POLITICS OF CULTURE

This course will address the way in which culture has been politicized. It will look at issues such as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58220 CULTURAL ECOLOGY

Analysis of relationships between socio-cultural systems and physical-biological environment. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58225 ARCHAEOLOGY OF DEATH

From excavations of prehistoric burial mounds to studies of colonial gravestones, the archaeology of death has always occupied a prominent place in anthropological research. The course explores approaches to diverse meanings of life and death. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58230 SOCIO-CULTURAL CHANGE

Analysis of institutional changes where peoples of different cultures are in sustained contact. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58240 THE SYMBOLIC IMPERATIVE

Cultural meanings from the perspective of symbols: objects, persons, relations and acts through which people communicate with each other and perceive order in their cultures. Prerequisite: Special approval and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58250 CULTURE AND CURING

Examination of the relationship between cultural beliefs about the nature of reality and the essence of humanity, and causation and alleviation of disease. Prerequisite: Special approval and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58260 CULTURE CONFLICT

Analyzes structured conflict situations between widely different cultures, both simple and complex including intertribal conflict, colonial conflict and problems arising from contact between dominant and subordinate social systems. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58270 NATIVE PEOPLES OF NORTH AMERICA

Comparative analysis of North American Indian peoples and cultures with special reference to linguistic groupings, cultural areas and contemporary issues. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology



ANTH 58291 SEMINAR IN REVOLUTION AND CULTURE CHANGE

The seminar deals with the interrelationship between culture and revolution since antiquity. The main focus is on dramatic and abrupt culture change. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Anthropology

ANTH 58391 SEMINARY IN HISTORY OF ANTHROPOLOGY 1750-1950

Seminar focusing on the development of anthropology within the intellectual and historical context from the height of the Enlightenment to the close of World War II. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Anthropology

ANTH 58410 STONE AGE ARCHAEOLOGY

Survey of Old World cultural history, using archaeological data. Stresses the period from 3 million years ago to 10,000 years ago. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58420 ARCHAEOLOGY OF NORTH AMERICA

Survey of major North American and Mexican archaeological sequences with emphasis on interregional relationships. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58425 ANCIENT MESOAMERICA

Comparative analysis of Mesoamerican societies from the arrival of the first Americans over 10,000 years ago to European colonization in the 16th century A.D., including major pre-Columbian civilizations. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58440 ARCHAEOLOGY OF ANCIENT OHIO

Cultural evolution and human-environmental relationships in the ancient Ohio region documenting an 11,000 year period from initial occupation to the beginning of European written history. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58450 STATES AND EMPIRES

This course presents a comparative analysis of both Old and New World case histories to explore definitions, causal explanations and organizational parameters associated with prehistoric state and empire level societies. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58692 FIELD WORK IN BIOLOGICAL ANTHROPOLOGY

Can be applied to any bio-anthropology field of study and off-campus activity, ranging from museum work to U.S. and international research projects. Prerequisite: Approval of project and faculty sponsor graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Anthropology

ANTH 58810 HUMAN PALEONTOLOGY

Study of primate fossils of the Miocene and Pliocene to include the origins of humans and their earliest ancestors. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58820 HUMAN MUSCULO-SKELETAL SYSTEM

A largely hands-on course introducing the study of human anatomy for students interested in biological anthropology and archaeology. Topics include skeletal and functional anatomy, biomechanics, and estimation of age and sex from isolated bones. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58830 HUMAN BEHAVIORAL ECOLOGY AND EVOLUTION

How "unique" is human behavior? Using an evolutionary perspective we will explore the evolution of human mating systems and parental investment. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58835 PRIMATE ECOLOGY AND CONSERVATION

Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes and human and climatic effects on their long-term survival. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 58840 NATURAL SELECTION IN PERSPECTIVE

The course provides an in-depth introduction into the theory of natural selection by reading both Darwin's original work and recent interpretations. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 68091 RESEARCH SEMINAR IN ANTHROPOLOGICAL THEORY

An opportunity for advanced students to follow up personal theoretical interests based upon a previously established foundation in theory. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Anthropology

ANTH 68093 VARIABLE TITLE WORKSHOP IN ANTHROPOLOGY

Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop group. Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Anthropology

ANTH 68095 SPECIAL TOPICS IN ANTHROPOLOGY

Offered irregularly when unusual resources and/or opportunities permit. Prerequisite: 6 graduate hours toward M.A. in Anthropology. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 68096 INDIVIDUAL INVESTIGATION

Readings and/or research supervised by member of graduate faculty. Petition form available in the anthropology department office. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate



Schedule Types: Individual Investigation
Department: Anthropology

ANTH 68098 RESEARCH

Research or individual investigation.
Repeated registration permitted. Petition
form available in the anthropology
department office. . Prerequisite: Special
approval and graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Anthropology

ANTH 68199 THESIS I

Thesis student must register for total of 6
hours, 2 to 6 hours in a single semester, or
distributed over several semesters if
desired. Prerequisite: Special approval and
graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Anthropology

**ANTH 68230 PROBLEMS IN CULTURAL
ANTHROPOLOGY**

Basic graduate course in cultural
anthropology required of all M.A.
candidates. Course deals with major topics
within this sub-discipline of anthropology.
Prerequisite: Special approval and graduate
standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

**ANTH 68240 ETHNIC GROUP ANALYSIS:
EAST ASIA**

Critical analysis of key aspects in traditional
East Asian socio-cultural systems which
can be related to modern development.
Prerequisite: Special approval and graduate
standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

**ANTH 68241 ETHNIC GROUP ANALYSIS:
PACIFIC ISLANDS**

Peoples and characteristics of culture areas
of the Pacific Islands, including Polynesia,
Melanesia and Micronesia with analysis of
several representative cultures from these
areas. Prerequisite: Special approval and
graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

**ANTH 68242 ETHNIC GROUP ANALYSIS:
NORTH AMERICA**

Cross-cultural analysis of native cultures
and societies of North America.
Prerequisite: Special approval and graduate
standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 68299 THESIS II

Thesis students must continue registration
each semester until all degree requirements
are met. Prerequisite: ANTH 68199 and
graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Anthropology

**ANTH 68430 PROBLEMS IN WORLD
PREHISTORY**

Basic graduate course in prehistoric
archaeology required of all M.A.
candidates. Prerequisite: Graduate
standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 68612 PRIMATE ANATOMY

Lecture and laboratory dissection of primate
cadaver from major taxonomic groups of
the order primates. Emphasis on
musculoskeletal and nervous systems.
Prerequisite: Special approval and graduate
standing.
5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

**ANTH 68613 MORPHOLOGICAL
ANALYSIS**

Application of current taxonomic and
genetic theory to the analysis of
mammalian structure, with special
emphasis on the primate fossil record.
Prerequisite: Special approval and graduate
standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

**ANTH 68621 PALEODEMOGRAPHY AND
OSTEOLOGY**

An examination of the methods and theory
of the use of prehistoric human remains in
the reconstruction of extinct populations. .
Prerequisite: Special approval and graduate
standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

**ANTH 68622 HUMAN POPULATION
STRUCTURE AND BIOLOGICAL
DEMOGRAPHY**

An intensive investigation of the principles
of biological demography; includes

emphasis on theories of selection and
mating structure. Prerequisite: Special
approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 68623 HUMAN VARIATION

A detailed anthropological examination of
the causes and extent of modern human
variability. Prerequisite: Special approval
and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 68624 PRIMATE ETHOLOGY

Detailed examination of the principles of
primate ethology, including evolutionary
trends in ecology, dominance, locomotion
and social behavior. Prerequisite: Special
approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 68625 DENTAL ANTHROPOLOGY

Study of the human and primate dentition
as it relates to primate and human
evolution. Includes general orofacial
biology. Prerequisite: Special approval and
graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 68626 PRIMATE PALEONTOLOGY

Survey of primate evolution and taxonomy
up to the emergence of modern hominids.
Prerequisite: Special approval and graduate
standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

**ANTH 68630 PRINCIPLES OF
BIOLOGICAL ANTHROPOLOGY**

A graduate-level introduction to the field of
biological anthropology. Topics include
genetics, human variation, fossil and
modern primates, early man. Prerequisite:
Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

**ANTH 68637 BIOANTHROPOLOGICAL
DATA ANALYSIS I**

Examination of methods of univariate and
bivariate experimental design. This survey
emphasizes tests of hypothesis and
estimation techniques with both classical



and nonparametric procedures.
Prerequisite: Graduate standing.
5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

ANTH 68638 BIOANTHROPOLOGICAL DATA ANALYSIS II

This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer application. Prerequisite: ANTH 68637 (same course as BMS 78638.).
Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Anthropology

Arabic (ARAB)

ARAB 11102 ELEMENTARY ARABIC II

Continuation of the introduction to Modern Standard Arabic and colloquial Arabic in the context of the cultures of Arabic speakers.
Prerequisite: ARAB 11101.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ARAB 21201 INTERMEDIATE ARABIC I

Continued development of speaking, listening, reading and writing skills in Arabic, using a variety of cultural materials.
Prerequisite: ARAB 11102.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ARAB 21202 INTERMEDIATE ARABIC II

Continuation of ARAB 21201. Prerequisite: ARAB 21201.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ARAB 30095 SPECIAL TOPICS IN ARABIC CULTURE AND LANGUAGE

Special topics in Arabic civilization, culture or language. Repeatable for a total of 9 credit hours. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ARAB 31301 ADVANCED INTERMEDIATE ARABIC I

Continuation of the study of Modern Standard Arabic and colloquial Arabic in the context of Arab cultures. Further development of listening, speaking, reading and writing skills, using a variety of cultural materials. Prerequisite: ARAB 21202.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ARAB 31302 ADVANCED INTERMEDIATE ARABIC II

Continuation of ARAB 31301. Prerequisite: ARAB 31301.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ARAB 41096 INDIVIDUAL INVESTIGATION

(Repeatable for a total of 6 credit hours)
Individual study supervised by a faculty member on an approved topic dealing with Arabic language and-or culture.
Prerequisite: ARAB 21201.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Modern and Classical Language Studies

ARAB 41201 ADVANCED ARABIC I

Continuation of ARAB 31302. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of higher levels of conversational proficiency. Prerequisite: ARAB 31302 and special approval.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ARAB 41202 ADVANCED ARABIC II

Continuation of ARAB 41201. Prerequisites: ARAB 41201 and special approval.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ARAB 41301 ARABIC CULTURE

Survey of the Arab world covering its geographical, ethnic, religious, and linguistic diversity and the roots of its current socio-cultural context. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Modern and Classical Language Studies

ARAB 41302 BUSINESS ARABIC

Study of the business protocol, language functions, texts and vocabulary associate with travel and business in the Arabic-speaking world. Prerequisite: ARAB 31302.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

Architecture (ARCH)

ARCH 10001 UNDERSTANDING ARCHITECTURE

The nature of the built environment, its forms and functions are explored within the cultural contexts of ecology, technology, human behavior, symbolism, art and history. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture
Course Attributes: Kent Core-Fine Arts, Transfer Module-Fine Arts

ARCH 10011 SURVEY OF ARCHITECTURAL HISTORY I

History of architecture from Neolithic times through the 14th century. Prerequisite: Not open to architecture majors.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture
Course Attributes: Kent Core-Fine Arts, Transfer Module-Fine Arts

ARCH 10012 SURVEY OF ARCHITECTURAL HISTORY II

History of Western architecture from the Renaissance to the early 20th century. Prerequisite: ARCH 10011; not open to architecture majors.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture
Course Attributes: Kent Core-Fine Arts, Transfer Module-Fine Arts

ARCH 10093 WORKSHOP: VARIABLE TITLE

(repeated registration permitted.) Variable topics. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Architecture

ARCH 10101 FIRST YEAR DESIGN STUDIO I

Introduction to the fundamental principles of visual organization, structural organization,



graphic communications, historical precedence and current directions in architecture. Graphic techniques include free hand drawing, and technical orthographics, axonometrics and perspectives. Prerequisite: architecture (ARCH) or interior design (ID) majors.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 10102 FIRST YEAR DESIGN STUDIO II

Investigations into strategies of form making through the introduction of client, type, context, site and form/space theories 2D, and 3D representation techniques and analysis of related reference architects. Prerequisite: ARCH 10101.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 10111 HISTORY OF ARCHITECTURE I

History of architecture from pre-history through the Gothic period. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 10121 REPRESENTATION OF DESIGN I

A survey of the techniques and assumptions of basic architectural design concepts and representation of the built environment through analytical and synthetic exercises that introduce fundamental design skills. In order to integrate students into the college and the field, the exercises are supplemented by readings in contemporary visual culture. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 10122 REPRESENTATION OF DESIGN II

Continuation of ARCH 10121 with an emphasis on 3-D thinking and representation, critical skills and the role of images in architectural culture and society. The course also introduces the wider application of design principles in graphic design, digital media and the visualization of information. Prerequisite: ARCH 10121 or 10101.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 20101 SECOND YEAR DESIGN STUDIO I

The introduction of a building design process that emphasizes the integration of program requirements with specific form topologies using line and plane as the primary elements to provide shape and space. Prerequisite: ARCH 10102.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 20102 SECOND YEAR DESIGN STUDIO II

The introduction of a building design process that emphasizes the integration of program requirements with form typologies that are both influenced and informed by specific site context. Line and plane and primary configurational shapes are again incorporated to develop building form solutions. Prerequisite: ARCH 20101.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 20112 HISTORY OF ARCHITECTURE II

History of architecture from the Medieval era through the 19th century. Prerequisite: architecture (ARCH) or architectural studies (ARCS) major or architectural studies (ARCS) minor.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 20113 HISTORY OF ARCHITECTURE III

A history of 20th century architecture. Prerequisites: ARCH 20112 and architecture (ARCH) or architectural studies (ARCS) major or architectural studies (ARCS) minor.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 20121 STUDIO FOR ARCHITECTURAL STUDIES I

An introduction to basic issues in architectural design and composition. Through sketch projects and design exercises in a variety of media, students gain a familiarity with basic architectural problems and the kinds of thinking architects use to address those problems. Prerequisite: ARCH 10122 or 10102.
4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 20122 STUDIO FOR ARCHITECTURAL STUDIES II

Studio allows students to further develop their design skills in relation to a theme or shared research topic that crosses the disciplinary boundaries of architecture and challenges conventional ideas of the role design can play in developing knowledge. Prerequisite: ARCH 20121 or 20101.
4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 20201 BEYOND WESTERN ARCHITECTURE

Course introduces students to the broad realm of contributions to world architecture made by cultures and civilizations that were not in the traditional sphere of Western/European influence. Prerequisites: ARCH 10111 and 20112; and architecture (ARCH) or architectural studies (ARCS) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 20301 INTRODUCTION TO BUILDING STRUCTURES

An introduction to building structures, statics, strength of materials, analysis for shear-moment-displacement, loads including dead-live-wind-earthquake and building code requirements for structural safety. Prerequisite: Architecture majors only and MATH 12011 and 12012, or MATH 12002; PHY 13001 or 13011.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 20601 COMPUTER APPLICATIONS IN ARCHITECTURE I

Course provides a basic understanding of two-dimensional CAD operations, parametric building design and building information modeling (BIM). Prerequisite: architecture (ARCH) or architectural studies (ARCS) or interior design (ID) major.
1.000 TO 3.000 Credit hours
15.000 TO 45.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 20602 COMPUTER APPLICATIONS IN ARCHITECTURE II

Principles and practices of 3D digital modeling and rendering, including: production of geometric surfaces and forms using polygon construction, texturing, lighting and rendering. Prerequisite: ARCH 20601 and architecture (ARCH) or architectural studies (ARCS) or interior design (ID) major.
1.000 TO 3.000 Credit hours
15.000 TO 45.000 Other hours
Level: Undergraduate



Schedule Types: Studio
Department: Architecture

ARCH 20693 WORKSHOP:COMPUTER APPLICATIONS

Computer workshops are intended to provide an exposure to various fundamental computer topics and their application to architectural studies. Topics include file management, network applications, spreadsheets, raster image manipulations, two- and three- dimensional CAD and computer aided visualization. Prerequisite: Architecture and interior design majors only.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Architecture

ARCH 30001 SITE DESIGN

Research component addressing technical, cultural and contextual concerns, influences and directions in site design. Prerequisite: architecture (ARCH) major and approved admission to advanced study (third year). Corequisite ARCH 30101.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture
Course Attributes: Writing Intensive Course

ARCH 30002 URBAN DESIGN

Lecture/seminar/research component conducted concurrently with ARCH 30102 addressing design of form and space in cities through study of precedents, traditions and current directions in urban form making. Prerequisites: ARCH 30101, ARCH 30001. Corequisite: ARCH 30102.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 30012 URBAN DESIGN, FLORENCE, ITALY

Lecture/seminar/research component addressing design of form and space in cities through study of precedents, traditions and current directions in urban form making. Prerequisite: ARCH 30101. Corequisite: ARCH 30112.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 30022 URBAN DESIGN DISCOURSE

Starting in the 1960s, a series of theorist attempted to understand the city as a form of writing, producing some of the most influential design books of the last generation. Course investigates this literature, using a range of writing exercises in which students interpret both urban space and the writing it inspires. Prerequisite: ARCH 20113.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture
Course Attributes: Writing Intensive Course

ARCH 30101 THIRD YEAR DESIGN STUDIO I

Studio investigation of the simultaneous concerns of program, site, context and materials of construction. Specific emphasis on the understanding of the goals, objectives, intentions and parameters of site/context in design, including cultural influences. Prerequisite: Architecture (ARCH) majors with approved admission to advanced study (third year). Corequisite: ARCH 30001.

5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 30102 THIRD YEAR DESIGN STUDIO II

Studio investigation with specific emphasis on the understanding of the goals, objectives, intentions and parameters of urban design. Prerequisite: ARCH 30101. Corequisite: ARCH 30002.

5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 30112 THIRD YEAR DESIGN STUDIO II-FLORENCE, ITALY

Studio investigation with specific emphasis on understanding of the goals, objectives, intentions and parameters of urban design. Prerequisite: special approval. Corequisite ARCH 30012.

5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 30301 STRUCTURAL SYSTEMS I

A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on elastic materials allowable stresses and design for wood and steel structural members and systems. Prerequisite: ARCH 20301 and architecture (ARCH) major with approved admission to advanced study (third year).

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 30321 STRUCTURAL TYPOLOGY

Course provides a non-computational introduction to structural principles, materials and building technologies. Historical and contemporary examples are used as case studies. The goal of the course is to give students an understanding of the role structural engineering and

materials science play in design thinking and how they can drive design innovation. Prerequisite: ARCH 10121.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 30401 METHODS AND MATERIALS I

Introduction to the origins, extraction, properties and processing of the basic materials of construction. Primary focus on wood and masonry-appropriate use and scale including code requirements, methods of construction and design consequences. Prerequisite: architecture (ARCH) majors with approved admission to advanced study (third year).

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 30421 THE ENVIRONMENTAL IMPERATIVE

Course begins with a historical introduction to the transformative role played by environmental technologies in modern architecture. This discussion is then brought into the present through an introduction to a wide range of contemporary thinking about sustainability in architecture and urbanism. Prerequisite: ARCH 10121.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 30501 ENVIRONMENTAL TECHNOLOGY I

Basic principles of ecological design and architecture environmental systems including lighting, sonic and thermal systems. Interior design (ID) majors by special approval. Prerequisite: PHY 13012 and architecture (ARCH) major with approved admission to advanced study (third year).

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 40001 SUSTAINABLE DESIGN

Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design. Prerequisites: ARCH 30102 or ARCH 30112. Corequisite: ARCH 40101.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture
Course Attributes: Writing Intensive Course

**ARCH 40002 SYSTEMS DESIGN**

Lecture and research component addressing comprehensive integration of mechanical, electrical communications structural life safety systems and sustainable design concerns. Prerequisite: ARCH 40101. Corequisite: ARCH 40102. 1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 40101 FOURTH YEAR DESIGN STUDIO I

Studio investigation of complex formal and spatial constructs addressing the comprehensive concerns of architecture. Special emphasis on understanding the conservation of the natural environment. CAD is required. Prerequisite: ARCH 30102 or ARCH 30112. Corequisite: ARCH 40001. 5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 40102 FOURTH YEAR DESIGN STUDIO II

Studio investigation of the comprehensive concerns and understanding of building systems integration. CAD is required. Prerequisite: ARCH 40101. Corequisite: ARCH 40002. 5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 40302 STRUCTURAL SYSTEMS II

A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress and design for masonry and concrete structural members and systems. Prerequisite: ARCH 30301. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 40402 METHODS AND MATERIALS II

Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale, including allied systems and building materials, including glazing and interiors. Introduction to construction contract documents. Prerequisite: ARCH 30401. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 40502 ENVIRONMENTAL TECHNOLOGY II

Ecological design of large buildings. The investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings. Prerequisite: ARCH 30501. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 44611 PORTFOLIO

Architectural drawings and other allied work of the student reproduced and assembled in a professional portfolio suitable for job and graduate application. Prerequisite: ARCH 40101. 1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45001 PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT

Introduction to the economic, social, ethical, legal impact on/of development in both the public and private sectors. Computer applications and case study analysis is required. Prerequisite: Admission to Bachelor of Architecture professional program. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45002 PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW

The course surveys laws relating to the practice of architecture and dispute resolution with emphasis on contract laws contrasted with laws of negligence and the standard of care in the profession. Planning law surveys land use control mechanisms as seen through zoning, variances and practical applications. Prerequisite: Admission to Bachelor of Architecture professional program. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45003 PROFESSIONAL PRACTICE: LEADERSHIP AND ETHICS

This course discusses leadership on several professional scales including architectural and urban, with emphasis on problem identification and problem solving within an ethical framework. Prerequisite: Admission to Bachelor of Architecture professional program. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45004 PROFESSIONAL PRACTICE: OFFICE AND FINANCIAL MANAGEMENT

The course examines various architectural office structures and management approaches, laws pertaining to professional registration and practice, the use of consulting engineers and financial management of the architect's office in the context of the profession as a business. Prerequisite: Admission to the Bachelor of Architecture professional program. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45093 WORKSHOP: PROFESSIONAL PRACTICE

(repeatable for a total of 3 credit hours) variable topic workshop related to architectural professional practice. S u graded. Prerequisite: Admission to bachelor of architecture professional program. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Architecture

ARCH 45101 FIFTH YEAR DESIGN STUDIO I

The studio intends to investigate a new scale of environmental issues which integrate both architectural and urban planning. Included are site visits data collection design of a master plan and an architectural form response to a segment of the total conceptual plan. Prerequisite: Admission to the Bachelor of Architecture professional program. 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 45102 FIFTH YEAR DESIGN STUDIO II

(repeatable for a total of 6 credit hours) advanced design studio emphasizing comprehensive and independent investigation -exploring and manifesting ideas through architecture using competitions and hypothetical or real projects as vehicles of expression. Prerequisite: Faculty permission required. 3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 45204 BEYOND WESTERN TRADITIONS

An introduction to the architectural traditions of Asia, Africa, Pre-Colonial America and Islam. Prerequisite: ARCH 20113. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture



Department: Architecture

ARCH 45210 RENAISSANCE ARCHITECTURE

History and theory of renaissance architecture from 1400 until 1600. Prerequisite: ARCH 10011 and 10012; or ARCH 10111 and 20112; or ARTH 22006 and 22007. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

ARCH 45211 BAROQUE ARCHITECTURE

History and theory of architecture in Europe from 1600 through 1750. Prerequisite: ARCH 10011 and 10012; or ARCH 10111 and 20112; or ART 22006 and 22007. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

ARCH 45220 AMERICAN ARCHITECTURE: COLONIAL TO 1900

History of American architecture for Spanish, French, Dutch and English colonization through the 19th century. Prerequisite: ARCH 10011 and 10012; or ARCH 10111 and 20112; or ARTH 22006 and 22007. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

ARCH 45230 FRANK LLOYD WRIGHT

Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history. Prerequisite: ARTH 22007 or ARCH 20112. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

ARCH 45291 SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY

(repeatable for a total of 3 credit hours) content varies. Prerequisite: Permission. 1.000 TO 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Seminar Department: Architecture

ARCH 45391 SEMINAR: STRUCTURES III

A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on complex systems, including horizontal long span and high rise structures. Computer analysis is required. Prerequisite: ARCH 40302. 1.000 TO 3.000 Credit hours 3.000 Other hours Level: Undergraduate

Schedule Types: Seminar
Department: Architecture

ARCH 45491 SEMINAR: METHODS AND MATERIALS III

Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required. Prerequisite: ARCH 40402. 1.000 TO 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Seminar Department: Architecture

ARCH 45591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III

Variable topics in environmental technology-environmental design and energy conservation, advanced lighting techniques etc. Prerequisite: ARCH 40502. 1.000 TO 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Seminar Department: Architecture

ARCH 45601 ADVANCED COMPUTER APPLICATIONS

This course discusses advanced visualization techniques such as ray tracing, radiosity and animation, and presents a variety of presentation issues and options. Prerequisite: Special approval; admission to third year. 1.000 TO 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Combined Lecture/Lab Department: Architecture

ARCH 45610 RECONSTRUCTING ARCHITECTURE

The representation of race, gender and nationalistic ideologies within architectural practice and form. Prerequisite: Open to junior and senior architecture (ARCH) and interior design (ID) and fine arts (ARTS) majors. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture Course Attributes: Diversity Course-Global

ARCH 45611 DESIGN THEORY AND CRITICISM: TWENTIETH CENTURY

Design theory and criticism of architecture in the 20th century. Repeatable for a total of 3 credit hours. Prerequisite: None. 1.000 TO 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

ARCH 45620 INTRODUCTION TO PRESERVATION

(Repeatable for a total of 3 credit hours) An overview of preservation including building analysis, conservation adaptive reuse economic benefits of preservation planning

as a revitalizing strategy. Prerequisite: Permission.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45621 CURRENT ISSUES IN HISTORIC PRESERVATION

(Repeatable for a total of 3 credit hours) course in which practicing professionals including architects, planners developers and government officials present preservation related work. Prerequisite: Permission. 1.000 TO 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

ARCH 45630 INTRODUCTION TO LANDSCAPE ARCHITECTURE

Introduction to landscape design with emphasis upon the relationship between landscape and buildings. Repeatable for a total of 3 credit hours. Prerequisite: None. 1.000 TO 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

ARCH 45631 SITE ANALYSIS AND DESIGN

Analysis of environmental factors as a basis for site selection and site planning. Repeatable for a total of 3 credit hours. Prerequisite: None. 1.000 TO 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

ARCH 45632 URBAN ECOLOGY

Understanding the built environment as an integral component of an overall ecological system. Emphasis is on the need for a collaborative multi-disciplined and community based ecological design process, sustainable ethic and cultivating an awareness of nature in the city. Repeatable for a total of 3 credit hours. Prerequisite: None. 1.000 TO 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

ARCH 45640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS

Research of existing built environments and an investigation of the planning design process for the elderly. Repeatable for a total of 3 credit hours. Prerequisite: None. 1.000 TO 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Architecture

**ARCH 45701 URBAN DESIGN STUDIO I**

Introduction to urban design and its relationship to other design disciplines through analysis of neighborhoods and definition of comprehensive area improvement programs. Prerequisite: special approval.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 45702 URBAN DESIGN STUDIO II

Urban design exploration of the formal relationships between buildings, open spaces and streets in the development of high density, mixed-use projects. Prerequisite: special approval.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Architecture

ARCH 45703 THEORIES AND PRINCIPLES OF URBAN DESIGN

Course on the nature and utility of theory in urban design, examining the relationship between design ideologies and the theories of the environment on which they are based. Repeatable for a total of 3 credit hours. Prerequisite: None.
1.000 TO 3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45704 THEORIES AND PRINCIPLES OF URBAN DESIGN II

(repeatable for a total of 3 credit hours) course on the relationship between design ideologies/theories and the realities of existing spatial relationships/precedents. Prerequisite: special approval.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45706 SOCIO-POLITICAL REPRESENTATION IN URBAN DESIGN

(Repeatable for a total of 3 credit hours) this course explores representation of socio-political ideas/ideology through architectural and urban design.

Prerequisite: special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45707 REPRESENTATION IN DESIGN

Course on the nature of communication in design and the representational tools the designer uses to give form to abstract ideas and converse with clients and colleagues. Repeatable for a total of 3 credit hours. Prerequisite: None.
1.000 TO 3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 45793 WORKSHOP: URBAN DESIGN AND PLANNING

This course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods, with a particular emphasis on the role of urban design, architecture and landscape design. Repeatable for a total of 3 credit hours. Prerequisite: None.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Architecture

ARCH 46263 MODERN ARCHITECTURE

History and theory of architecture from the Chicago school through World War II. Prerequisite: ARCH 10111 and 20112; or ARCH 10011 and 10012; or ARTH 22006 and 22007.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 46613 URBAN DESIGN THEORY

Investigation of the visual form of cities. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 46991 SEMINAR: VARIABLE TOPIC

Variable topic seminar. Prerequisite: Approved admission to third year.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Architecture

ARCH 46992 FIELD STUDY

Variable topic field experience. Prerequisite: Approved admission to third year.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Architecture

ARCH 46993 WORKSHOP: VARIABLE TOPIC

Variable topic workshop. Prerequisite: Approved admission to third year.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Architecture

ARCH 46995 SPECIAL TOPICS IN ARCHITECTURE

Special topics in architecture. Prerequisite: Approved admission to third year.

1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ARCH 46996 INDIVIDUAL INVESTIGATION

Individual investigation. Prerequisite: Permission prior written agreement with faculty is required.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Architecture

ARCH 50001 SUSTAINABLE DESIGN

Writing intensive and research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design. Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Architecture

ARCH 50002 SYSTEMS DESIGN

Lecture and research component addressing comprehensive integration of mechanical, electrical, communication, structural- and life-safety systems and sustainable design concerns. Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Architecture

ARCH 50093 VARIABLE TITLE WORKSHOP- ARCHITECTURE

Prerequisite: Graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Architecture

ARCH 50101 FOURTH YEAR DESIGN STUDIO I

Studio investigation of complex formal and spatial constructs addressing comprehensive concerns of architecture. Special emphasis on understanding conservation of the natural environment. CAD is required. Prerequisite: ARCH 30102 or ARCH 30112; Graduate standing. Corequisite: ARCH 50001.
5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Architecture

ARCH 50102 FOURTH YEAR DESIGN STUDIO II

Studio investigation of the comprehensive concerns and understanding of building systems integration. CAD is required.



Prerequisite: Graduate standing.
Corequisite ARCH 50002.
5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Architecture

ARCH 50302 STRUCTURAL SYSTEMS II

A continuation of building structures, statics, strength of materials and systems analysis. Emphasis is on inelastic materials, allowable stress, and design for masonry and concrete structural members and systems. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 50402 METHODS AND MATERIALS II

Continued investigation of the origins, extraction, properties and processing of the basic materials of construction. Primary focus on concrete and steel-appropriate use and scale including allied systems and building materials, including glazing and interiors. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 50502 ENVIRONMENTAL TECHNOLOGY II

Ecological design of large buildings. The investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 55001 PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT

Introduction to the economic, social, ethical, legal impact on/of development in both the public and private sectors. Computer applications and case study analysis is required. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55002 PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW

The course surveys laws relating to the practice of architecture and dispute resolution with emphasis on contract laws contrasted with laws of negligence and the standard care in the profession. Planning law surveys land use control mechanisms as seen through zoning, variances and

practical applications. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55003 PROFESSIONAL PRACTICE: LEADERSHIP AND ETHICS

This course discusses leadership on several professional scales including architectural and urban, with emphasis on problem identification and problem solving within an ethical framework. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55004 PROFESSIONAL PRACTICE: OFFICE AND FINANCIAL MANAGEMENT

This course examines various architectural office structures and management approaches, laws pertaining to professional registration and practice, the use of consulting engineers and financial management of the architect's office in the context of the profession as a business. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55093 WORKSHOP: PROFESSIONAL PRACTICE

Variable topic workshop related to architectural professional practice. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Architecture

ARCH 55101 FIFTH-YEAR DESIGN STUDIO I

This studio intends to investigate a new scale of environmental issues which integrate both architectural and urban planning. Included are site visits data collection design of a master plan and an architectural form response to a segment of the total conceptual plan. Prerequisite: Graduate standing.
6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Architecture

ARCH 55102 FIFTH-YEAR DESIGN STUDIO II

Advanced design studio emphasizing comprehensive and independent investigation-exploring and manifesting ideas through architecture using competition and hypothetical or real

projects as vehicles of expression. Prerequisite: Graduate standing.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Architecture

ARCH 55210 RENAISSANCE ARCHITECTURE

History and theory of Renaissance architecture from 1400 until 1600. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55211 BAROQUE ARCHITECTURE

History and theory of architecture in Europe from 1600 through 1750. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55220 AMERICAN ARCHITECTURE: COLONIAL TO 1900

History of American architecture from Spanish, French, Dutch and English colonization through the 19th century. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55230 FRANK LLOYD WRIGHT

Examination of the life, buildings and literary works of Frank Lloyd Wright with emphasis on his contributions to American art and architecture and his place in American intellectual history. Prerequisite: ARTH 22007 or ARCH 55202. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55291 SEMINAR: VARIABLE TOPICS IN ARCHITECTURAL HISTORY

Content varies. Repeatable for a total of 3 credit hours. Prerequisite: Permission and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Architecture

ARCH 55391 SEMINAR: STRUCTURES III

A continuation of building structures, statics strength of materials and systems analysis. Emphasis is on complex systems including horizontal long span and high rise structures. Computer analysis is required. Prerequisite: Graduate standing.



1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Architecture

ARCH 55491 SEMINAR: METHODS AND MATERIALS III

Advanced topics in methods and complex materials systems. Computer modeling and field experience is required. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Architecture

ARCH 55591 SEMINAR: ENVIRONMENTAL TECHNOLOGY III

Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques, etc. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Architecture

ARCH 55601 ADVANCED COMPUTER APPLICATIONS

This course discusses advanced visualization techniques such as ray tracing, radiosity and animation and presents a variety of presentation issues and options. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Architecture

ARCH 55610 RECONSTRUCTING ARCHITECTURE

The representation of race, gender and nationalistic ideologies within architectural practice and form. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55611 DESIGN THEORY AND CRITICISM: 20TH CENTURY

Design theory and criticism of architecture in the 20th century. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55620 INTRODUCTION TO PRESERVATION

An overview of preservation including building analysis conservation, adaptive reuse, economic benefits of preservation planning as a revitalizing strategy. Prerequisite: Admission to the preservation program or permission of the instructor. Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55621 CURRENT ISSUES IN HISTORIC PRESERVATION

Course in which practicing professionals including architects, planners, developers and government officials present preservation related work. Repeatable for a total of 3 credit hours. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55630 INTRODUCTION TO LANDSCAPE ARCHITECTURE

Introduction to landscape design with emphasis upon the relationship between landscape and buildings. Repeatable for a maximum 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55631 SITE ANALYSIS AND DESIGN

Analysis of environmental factors as a basis for site selection and site planning. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55640 DEVELOPING ENVIRONMENTS FOR OLDER ADULTS

Research of existing built environments and an investigation of the planning design process for the elderly. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55701 URBAN DESIGN STUDIO I

Introduction to urban design and its relationship to other design disciplines through analysis of neighborhoods and definition of comprehensive area improvement programs. Repeatable for a

total of 6 credit hours. Prerequisite: Graduate standing.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Architecture

ARCH 55702 URBAN DESIGN STUDIO II

Urban design exploration of the formal relationships between buildings, open spaces and streets in the development of high density, mixed-use projects. Repeatable for a total of 6 credit hours. Prerequisite: Special approval and graduate standing.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Architecture

ARCH 55706 SOCIO-POLITICAL REPRESENTATION IN URBAN DESIGN

This course explores representation of socio-political ideas/ideology through architectural and urban design. Repeatable for a total of 3 credit hours. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55707 REPRESENTATION IN DESIGN

Course on the nature of communication in design and the representational tools the designer uses to give form to abstract ideas and converse with clients and colleagues. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55793 WORKSHOP IN URBAN DESIGN AND PLANNING

This course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods with particular emphasis on the role of urban design, architecture and landscape design. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Architecture

ARCH 55813 PROFESSIONAL PRACTICE

Study of the practice of architecture, including professional office organizations, marketing of services, law, contracts, project management and construction contract administration. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 55913 LAND USE CONTROL LAW

Seminar discussing land use control policies, systems programs and laws including private controls, constitutional considerations and environmental issues. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 56613 URBAN DESIGN THEORY

Investigation of the visual form of cities. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 56991 SEMINAR: VARIABLE TOPIC

Variable topic seminar. Repeatable for a maximum 3 credit hours. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Architecture

ARCH 56992 FIELD STUDY

Field experience. Repeatable for a maximum 3 credit hours. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Architecture

ARCH 56993 WORKSHOP: VARIABLE TOPIC

Field experience. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Architecture

ARCH 56995 SPECIAL TOPICS IN ARCHITECTURE

Special topics in architecture. Repeatable registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 60101 GRADUATE DESIGN STUDIO I

Architectural studies related to buildings. Emphasis on spatial, aesthetic, environmental and functional factors in design. Prerequisite: Graduate standing.

3.000 TO 6.000 Credit hours
3.000 TO 6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Architecture

ARCH 60102 GRADUATE DESIGN STUDIO II

Independent design project, completed under the direction of an individual adviser selected from the graduate faculty. Prerequisite: ARCH 60101 and 60301 and graduate standing. Corequisite: ARCH 60922.
3.000 TO 6.000 Credit hours
3.000 TO 6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Architecture

ARCH 60103 GRADUATE DESIGN STUDIO III

Capstone-studio (or "Master Project") aimed at further investigating building design issues both at a greater depth of complexity and by focusing on particular design aspects or areas of concentration. Prerequisite: ARCH 60101 and 60150 and 60922 and graduate standing.
6.000 TO 9.000 Credit hours
6.000 TO 9.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Architecture

ARCH 60150 PROJECT PROGRAMMING

Study and discussion of the notion of program in architecture and the principles of project programming. Case study analysis and preparation of a comprehensive program for an architectural project. Prerequisite: Graduate standing; ARCH 60101 and 60301.
2.000 TO 3.000 Credit hours
2.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 60201 HISTORY AND THEORY OF PRESERVATION

A study of the history and theory of preservation as practiced in the United States compared with international standards and practices. Prerequisite: Graduate standing.
3.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 60202 BUILDING DIAGNOSTIC APPLICATIONS

Nondestructive evaluation of damage and its causes. The diagnostic tools will permit verification of the hypotheses of the damage, supporting qualitative and quantitative data. Analytical criteria illustrated through case studies. Prerequisite: Graduate standing.
3.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Architecture

ARCH 60203 HISTORIC BUILDING MATERIALS CONSERVATION

A study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration. Prerequisite: Graduate standing.
3.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 60204 EXPLORING HISTORIC STRUCTURES

A study of historic structures by means of thorough documentation. Historic American Building Survey through measured drawings, field notes and documentary photography. Rectified photography, triangulation and archival preparation. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 60205 PRESERVATION LEGISLATION AND POLICIES

A study of the legal controls and financial incentives in historic preservation: Certified Local Government status, tax credits, conservation easements, Section 106, and the Secretary of the Interior Standards for the Treatment of Historic Properties. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 60301 THEORIES OF ARCHITECTURE

In-depth analysis and discussion of contemporary architectural theories. Critical evaluation of major authors and architectural projects. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 60922 METHODS OF INQUIRY IN ARCHITECTURAL STUDIES

Provides a comprehensive coverage of architectural inquiry techniques including qualitative and quantitative research methods and critical thinking skills to help students better conduct and understand research. Prerequisite: ARCH 60101 and 60301 and graduate standing and special approval.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Architecture

ARCH 65001 PROFESSIONAL PRACTICE: REAL ESTATE AND DEVELOPMENT

Introduction to the economic, social, ethical and legal impact on/of development projects in both the public and the private sectors. Computer applications and case-studies analysis are required. Prerequisite: Graduate standing.
2.000 TO 4.000 Credit hours
2.000 TO 4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 65002 PROFESSIONAL PRACTICE: CONTRACT AND PLANNING LAW

The course surveys laws relating to the practice of architecture and to dispute resolution with emphasis on contract laws contrasted with laws of negligence and the standard of care in the profession. The planning law component surveys land use control mechanisms as seen through zoning, variances and practical applications. Prerequisite: architecture (ARCH) major and graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 65003 PROFESSIONAL PRACTICE: LEADERSHIP, ETHICS AND OFFICE MANAGEMENT

Course discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers and financial management of an office in the context of the profession as business. Prerequisite: ARCH 65002 and architecture (ARCH) major and graduate standing.
2.000 TO 3.000 Credit hours
2.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 65703 ANALYSIS OF URBAN FORM

Seminar on the relationship between design ideologies/theories and the realities of existing spatial relationships. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 65704 THEORIES OF URBANISM

In-depth analysis and discussion of ideologies and theories on urbanism from modernism until present time. Critical evaluation of major authors and urban projects. Repeatable for a total of 3 credit hours. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 66100 CAPSTONE PREPARATION

Capstone project preparation. Repeatable for a total 3 credit hours. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 66199 THESIS I

Thesis students must register for a total of 6 hours. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Architecture

ARCH 66299 THESIS II

Following completion of 6 credit hours of Thesis I all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met. Prerequisite: 6 credit hours of ARCH 66199. Graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Architecture

ARCH 66892 PRACTICUM

Variable topic practicum: repeated registration permitted. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Architecture

ARCH 66991 SEMINAR: VARIABLE TOPIC

Seminar on a variable topic. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Architecture

ARCH 66992 FIELD STUDY

Field study in architecture. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Architecture

ARCH 66993 WORKSHOP: VARIABLE TOPIC

Variable topic workshop. Repeated registration permitted. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Architecture

ARCH 66995 SPECIAL TOPICS IN ARCHITECTURE

Special topics in architecture. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 66996 INDIVIDUAL INVESTIGATION

Individual investigation in architecture. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Architecture

ARCH 66998 RESEARCH

Research in architecture. Repeated registration permitted. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Architecture

ARCH 67510 SUSTAINABLE BUILDING CONSTRUCTION I

First course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to Green Building and Sustainable Design of the Built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on construction site issues. Provides a comprehensive review of impact of site on construction and building design on the site and its resources. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment. Prerequisite: TECH 57000 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

ARCH 67511 SUSTAINABLE BUILDING CONSTRUCTION II

Second course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to Green Building and Sustainable Design of the Built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on building systems. Provides a



comprehensive review of impact of building component, materials, and systems on design and construction of High-performance buildings. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment. Prerequisite: ARCH 67510 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Architecture

Art (ART)

ART 10022 2D COMPOSITION

Basic introduction in flat pictorial composition for the studio or craft artist. Work produced in this class must be retained for later portfolio presentation in ARTF 24005. Prerequisite: None.
3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ART 10023 3D COMPOSITION

Serves as the introductory three-dimensional experience focusing on fundamental principles, elements and strategies of visual organization. Focus is on creative problem solving using a variety of approaches and materials and favors non-equipment intensive assignments. Students develop critical thinking and practical skills relating to three-dimensional form and space. As a foundation level course, Three-Dimensional Composition prepares students for subsequent study within all the visual arts. Prerequisite: none.
3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ART 20024 DIGITAL MEDIA

Introduces concepts, tools, software and guided experiences necessary for creative integration of digital skills and concepts into art practices and art research. Prerequisite: art education (ARTE) or art history (ARTH) or fine arts (ARTS) or crafts (CRFT) or crafts/fine arts (CFA) major and freshmen or sophomore standing.
3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ART 30692 FIELD EXPERIENCE IN THE VISUAL ARTS

An undergraduate, experience-based learning activity carried out in a visual arts setting. Prerequisite: Junior standing or above with a major of art education (ARTE) or art history (ARTH) or fine arts (ARTS) and special approval of faculty sponsor.
1.000 TO 3.000 Credit hours

3.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Art

ART 40008 PROFESSIONAL PRACTICES IN VISUAL ARTS

Introduction to the concerns and practices of the professional artist/craftsperson. Prerequisites: crafts (CRFT) or fine arts (ARTS) major and senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art
Course Attributes: Writing Intensive Course

ART 40092 FIELD EXPERIENCE TRAVEL STUDY IN ART

(Repeatable for a maximum of 6 credit hours) Travel-based field experience in the visual arts at site(s) away from the university. Involves two or more visual arts disciplines and direct observation of works and experience of culture in context. May involve research, creative activity, presentation and-or written reflection as appropriate to site and goals of course. Prerequisite: ARTE, ARTH, ARTS, CFA, CRFT majors.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Art

ART 41093 VARIABLE TITLE WORKSHOP IN ART

(Repeatable for a total of 18 hours). S u graded. Prerequisite: Permission.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Art

ART 50092 FIELD EXPERIENCE TRAVEL STUDY IN ART

(Repeatable for a maximum of 6 credit hours) Travel-based field experience in the visual arts at site(s) away from the university. Involves two or more visual arts disciplines and direct observation of works and experience of culture in context. May involve research, creative activity, presentation, and-or written reflection as appropriate to site and goals of course. Prerequisites: ARTE, ARTH, ARTS and CRFT majors; and graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Field Experience
Department: Art

ART 51093 VARIABLE TITLE WORKSHOP IN ART

Prerequisite: Graduate standing.
1.000 TO 6.000 Credit hours
1.000 TO 6.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Art

ART 67199 M.A.THESIS I

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Art

ART 67299 M.A.THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: ART 67199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Art

ART 69199 M.F.A. THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Art

ART 69299 M.F.A. THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: ART 69199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Art

Art Crafts (ARTC)

ARTC 25300 TEXTILE ARTS:PATTERN

An introduction to the concepts and processes of constructed pattern including plaiting, netting and weaving. Off-loom and floor loom explorations will emphasize the relationship of form and structure in textile art. An emphasis is placed on the use of non-traditional or experimental materials. Required for craft majors. Prerequisite: ARTF 14000 and 14022.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 25400 CERAMICS I

This course is an introduction to ceramics as an artistic medium with focus on the hand building of clay objects using the pinch, coil and slab methods of construction. Prerequisite: ARTF 14000 and 14022.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate



Schedule Types: Studio
Department: Art

ARTC 25500 ENAMELING I

Testing and exploration of vitreous enamel as creative medium. Prerequisite: ARTF 14000 and 14022.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 25600 INTRODUCTION TO GLASS WORKING

Introduction to studio glass through technique and brief history. Both basic glass blowing and glass casting techniques and problems will be covered. Prerequisite: ARTF 14000 and 14022.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 25700 INTRODUCTION TO JEWELRY METALS

Introduction to basic jewelry and metalsmithing techniques including fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works. Prerequisites: ARTF 14000 and 14022.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 25701 INTRODUCTION TO JEWELRY/METALS FOR NON-ART MAJORS

Introduction to basic jewelry and metalsmithing techniques including fabrication, forming and finishing. Emphasis on advancing design skills and critical analysis. Exposure to historical and contemporary works. Prerequisite: Non-Art majors.
3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35095 CRAFTS:SELECTED TOPICS

Specialized courses in crafts that focus on specific techniques and media. Prerequisite: ARTC 25300, 25400 or 25500 or 25600 or 25700.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35300 TEXTILE ARTS: DIMENSIONAL

An introduction to the development of unique sculptural objects in textile media. Students will explore three-dimensional

textile processes using the floor loom and the construction method of wrapping and coiling. Prerequisite: ARTF 14022.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35301 FIBER ARTS: SCREEN AND BLOCK PRINTING

Exploration and development of fabric printing and dyeing including monoprinting and screen printing with emphasis on design and developing studio competency in medium as art form. Prerequisite: ARTF 14060 and 24040.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35302 TEXTILE ARTS: FELTMAKING

An opportunity for the in-depth exploration of technical and aesthetic possibilities of this unique process. Layers and textures in two dimensions and processes for three-dimensional feltmaking are introduced and considered as an expressive vocabulary. Dyeing of wool fleece plays a major role in the course. Prerequisite: ARTF 14002 and 14060.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35303 TEXTILE ARTS: TAPESTRY

An introduction to a variety of traditional pictorial tapestry/weft face techniques to be executed on the frame loom and/or floor loom. Both tapestry and carpet history are presented to reveal traditional processes patterns and images for inspiration in the creation of individual works. Dyeing will play a major role in the exploration. Prerequisite: ARTF 14022 and 14060.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35304 TEXTILE ARTS: PICTORIAL WEAVING

An introduction to floor loom weaving processes that facilitate the development of non-repetitive patterns and images. Techniques such as warp painting, supplementary weft and pick-up double weave will be explored as means of creating pictorial art cloth. Textile history will be presented as an important resource for the development of woven studies and individually conceived projects. Prerequisite: ARTF 14022 and 14060.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35350 TEXTILE ARTS: DESIGN AND PRODUCTION

A basic introduction to the mechanics of designing and constructing patterned and dyed cloth on the floor loom. Learning to use the computer for the designing of woven pattern is an expectation of the course. (This is an excellent course for designers of fashion and interiors, as well as anyone interested in the design and craft of weaving.) Prerequisite: ARTF 14022 and 14060.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35400 CERAMICS II

Continuation of ARTC 25400 emphasizing design, use of potter's wheel and chemistry of glazes. Prerequisite: ARTC 25400.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35600 GLASS BLOWING

Further exploration of glass blowing techniques. Design, form, color and execution will be emphasized. Prerequisite: ARTC 25600.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35601 SCULPTURAL AND KILN-FORMED GLASS

An overview and exploration of sculptural and kiln-formed glass techniques. Casting, using, slumping and cold construction will be covered. Design, form, content and technical execution and understanding operations of equipment will be emphasized. Prerequisite: ARTF 14055 and ARTC 25600.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35700 JEWELRY CONCEPTS AND TECHNIQUES

An in-depth exploration of jewelry making techniques such as casting, stone setting, mechanisms and fabrication. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works will be viewed and discussed. Prerequisite: ARTC 25700.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art



ARTC 35701 METALSMITHING CONCEPTS AND TECHNIQUES

Course offers an in-depth exploration of hammer working techniques such as raising, forging and shell forming. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works will be viewed and discussed. Prerequisite: ARTC 25700. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35702 ENAMELING CONCEPTS AND TECHNIQUES

An in-depth exploration of vitreous enameling techniques on two dimensional surfaces. Porcelain enamel on steel will be introduced. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works will be viewed and discussed. Prerequisite: ARTC 25700 and 35700. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 35703 TEXTILE TECHNIQUES IN METAL

Course applies textile techniques such as weaving, crocheting, knitting and basketry to create jewelry and objects in metal. Emphasis is on innovative approach to traditional processes. Prerequisite: ARTC 25700. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45092 FIELD EXPERIENCE: TRAVEL STUDIES IN CRAFTS

Travel-based study/field experience in crafts disciplines to and at a site or sites away from Kent State University. Prerequisite: Major in crafts (ARTC). 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Art

ARTC 45095 CRAFTS:SELECTED TOPICS

Specialized courses in crafts that focus on specific techniques and media. Prerequisite: Junior standing. 1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45096 INDIVIDUAL STUDY: CRAFTS

(repeatable for a total of 12 hours)
additional study and/or special topics in

ceramics, enameling glass jewelry metals or fiber arts. Prerequisite: special approval. 1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Art

ARTC 45099 SENIOR PROJECT: CRAFTS

Independently conceived project in crafts sub major. Includes completion of undergraduate thesis review presentation documentation (slide form) exhibition and faculty review. Prerequisite: Senior standing in crafts. 4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Senior Project/Honors Thesis
Department: Art

ARTC 45301 TEXTILE ARTS: ADVANCED STUDIO

Structured time for individual investigations in textiles. Emphasis on self designed study. Bi-weekly presentations of contemporary work in textiles and weekly discussions or critiques with open studio. Prerequisite: Senior standing in crafts. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45400 ADVANCED CERAMICS

Individual problems in ceramics. Prerequisite: ARTC 35400. 2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45500 ADVANCED ENAMELING

(repeatable for a total of 30 hours)
advanced study in enameling allows students to work in depth with media. Prerequisite: special approval. 2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45600 ADVANCED GLASS WORKING

(Repeatable for a total of 40 credit hours)
Individual exploration of sculptural and hot glass techniques. Design, form, content and execution strongly emphasized. Introduction to studio facility design, construction and maintenance. Prerequisite: ARTC 35600 and ARTC 35601. 3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45700 DESIGN AND PRODUCTION

Course prepares students to enter the marketplace by examining production processes for creating multiples, industrial applications and marketing. Traditional rendering techniques are taught as a method for communicating with clientele in the custom design market. Design skills are emphasized. Prerequisite: ARTC 35700 and 35701. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45701 TABLEWARE

Course explores forms made for the table such as flatware, serving sets and containers. Traditional and experimental approaches will be examined. Prerequisite: ARTC 35700 and 35701. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45702 ADVANCED ENAMELING

Course offers advanced vitreous enameling techniques on two-and three-dimensional surfaces. Conceptual development and design skills are emphasized. To gain a deeper understanding of the subject, historical and contemporary works will be viewed and discussed. Prerequisite: ARTC 35702. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45703 LARGE SCALE ENAMELING

Course is an in-depth exploration of enameling on larger two-dimensional surfaces. Techniques include spraying, painting, screening and drawing with porcelain enamel on steel. Provides experience using unique large-scale flat bed-furnace. Prerequisite: ARTC 35702. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTC 45704 ADVANCED STUDIO JEWELRY METALS ENAMELING

Course offers structured time for individual investigations in jewelry, metalsmithing and enameling. Emphasis on self-directed study with frequent critiques and technical demos as needed. Regular viewing and discussion of historical and contemporary works. Repeatable for a total of 9 credit hours. Prerequisite: ARTC 35700 and 35701 and senior standing. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

**ARTC 55092 FIELD EXPERIENCE:
TRAVEL STUDIES IN CRAFTS**

Travel-based study/field experience in crafts disciplines to and at a site or sites away from Kent State University.
Prerequisite: Graduate standing in crafts or special approval of instructor.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Art

**ARTC 55095 CRAFTS:SELECTED
TOPICS**

Specialized courses in crafts that focus on specific techniques and media.
Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Art

**ARTC 65095 CRAFTS: SELECTED
TOPICS**

Specialized courses in crafts that focus on specific techniques and media.
Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Art

ARTC 65991 SEMINAR IN CRAFTS

Contemporary issues and professional concerns in the crafts explored through presentations, lectures and discussion.
Graduate faculty and guest speakers.
Prerequisite: Graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Art

**ARTC 65996 INDIVIDUAL STUDY:
CRAFTS**

Independent study in ceramics, glass, enamels, jewelry metals or fiber arts.
Prerequisite: Graduate standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Art

Art Education (ARTE)**ARTE 31001 ART EDUCATION:
FOUNDATIONS AND CONCEPTS
ELEMENTARY**

An introduction to art education concepts. Emphasis on child development and on teaching the expressive and responsive dimensions of art in the early grades. Eleven field clinical hours are associated with this course. Prerequisite: 2.75 GPA and sophomore standing in art education.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

**ARTE 31004 ART
EDUCATION:TEACHING PRACTICUM**

A teaching experience for applying art education concepts. Analysis of instructional problems emphasized. Fifty-four field and/or clinical hours are associated with this course. Prerequisite: 2.75 GPA; ARTE 31001.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Art

**ARTE 31005 ART EDUCATION-SPECIAL
TOPICS**

Special topics (experimental course).
Prerequisite: Permission of instructor.
2.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art
Course Attributes: Variable Title

**ARTE 31096 INDIVIDUAL STUDY- ART
EDUCATION**

Additional study in areas of a student's choice in consultation with adviser.
Prerequisite: special approval.
2.000 TO 10.000 Credit hours
10.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Art

**ARTE 41002 ART EDUCATION:
FOUNDATIONS AND CONCEPTS
SECONDARY**

An examination of relationships between content, materials and strategies for teaching art to students in grades 7 12 and students with special needs. Nine field and/or clinical hours are associated with this course. Prerequisites: 2.75 GPA and ARTE 31004. Corequisite: ARTE 41003.
3.000 Credit hours
3.000 Lecture hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience, Lecture, Studio
Department: Art

**ARTE 41003 ART EDUCATION: FIELD
EXPERIENCES**

A planning and teaching experience for teaching art in various settings; analysis of classroom situations emphasized. Fifty-four field and/or clinical hours are associated with this course. Prerequisite: 2.75 GPA and ARTE 31004.
3.000 Credit hours
0.000 Lecture hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience, Lecture
Department: Art
Course Attributes: Writing Intensive Course

**ARTE 41009 ART EDUCATION MAJOR
REVIEW**

Examination of student's knowledge, proficiency and ability to apply concepts in art and art education. Prerequisite: 2.75 GPA and pre- or corequisite ARTE 41002 and 41003.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

**ARTE 41092 FIELD EXPERIENCE:
TRAVEL STUDY IN ART EDUCATION**

Travel-based study/field experience in art education to and at a site or sites away from Kent State University. Prerequisite: Major in art education or special approval of instructor.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Art

**ARTE 41096 INDIVIDUAL STUDY- ART
EDUCATION**

Additional study in areas of students' choice in consultation with adviser. Prerequisite: special approval.
1.000 TO 6.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Art

**ARTE 41525 ART EDUCATION: INQUIRY
INTO PROFESSIONAL PRACTICE**

Concepts and practices related to teaching art. Inquiry into art teaching as a professional practice. Emphasis is on teacher as critical disciplined investigator. Twenty-six field and/or clinical hours are associated with this course. Prerequisite: 2.75 GPA and ARTE 41009 and special approval. Corequisite: ARTE 41557.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

**ARTE 41557 ART EDUCATION:
STUDENT TEACHING AND SEMINAR**

Provides a 10-week student teaching experience and associated seminar. See student teaching section in catalog. Prerequisite: 2.75 overall and major GPA and ARTE 41009. Corequisite: ARTE 41525 and special approval.
9.000 Credit hours
0.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience, Seminar
Department: Art

**ARTE 51002 ART EDUCATION:
METHODS AND MATERIALS**

An examination of relationships between content, materials and strategies for teaching art. Seven field and/or clinical hours are associated with this course.



Prerequisite: Graduate standing and special approval.

3.000 Credit hours
3.000 Lecture hours
1.000 Other hours

Level: Graduate
Schedule Types: Lecture, Studio
Department: Art

ARTE 51092 FIELD EXPERIENCE: TRAVEL STUDY IN ART EDUCATION

Travel-based study/field experience in art education to and at a site or sites away from Kent State University. Prerequisite: Graduate standing in art education or special approval by instructor.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Art

ARTE 51525 ART EDUCATION: INQUIRY INTO PROFESSIONAL PRACTICE

Concepts and practices related to teaching art. Inquiry into art teaching as a professional practice. Emphasis is on teacher as critical disciplined investigator. Twenty six field and/or clinical hours are associated with this course. Prerequisite: Graduate standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTE 61095 SPECIAL TOPICS: ART EDUCATION

A course whose topic changes to reflect the interests and specialization's of faculty. Prerequisite: ARTE 61198 and instructor's special approval; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTE 61096 INDIVIDUAL STUDY-ART EDUCATION

Specialized study leading to the thesis in art education. Prerequisite: ART 61001, 61003, 61198 and special approval. Graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Art

ARTE 61191 SEMINAR IN ART EDUCATION I

Emphasizes the study of some prevailing themes in Pre K-12 Art and Design education. The curriculum focuses on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political, and educational values and beliefs of the time. Seminar II is a continuation of the topics addressed in Seminar I. Prerequisite: Art Education (ARTE) majors; and graduate standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Art

ARTE 61198 RESEARCH IN ART EDUCATION

Specialized research leading to the thesis in art education. Prerequisite: ARTE 61001, 61003 and special approval. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTE 61209 CANDIDACY REVIEW EXAMINATION: ART EDUCATION

This comprehensive review is a formal assessment of students' knowledge and understanding of concepts in art, education and art education. Prerequisite: ARTE 61198 and instructor's special permission; graduate standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTE 61291 SEMINAR IN ART EDUCATION II

Following ARTE 61191, this course continues the study of some prevailing themes in Pre K-12 art and design education. The curriculum will focus on the ideas of leading scholars and practicing teachers who have shaped practice in the field of art education within the context of the social, political, and educational values and beliefs of the time. Prerequisite: ARTE 61191; and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Art

ARTE 61298 MASTER'S PROJECT: ART EDUCATION

A course for guiding the design, preparation of drafts and presentation of the terminal project in the non-thesis track of the MA program in art education. Prerequisite: ARTE 61209 and instructor's special approval; graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Art

Art Fine Arts (ARTF)

ARTF 14000 DRAWING I

Fundamental drawing and studio experiences; exploration of basic drawing ideas and media. Work produced in class must be retained for later portfolio presentation in ARTF 24005. Prerequisite: None.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art
Course Attributes: TAG Arts/Humanities

ARTF 14001 DRAWING II

Continued practice in drawing with particular emphasis upon dimensional representation and pictorial structure. Work produced in this class must be retained for later portfolio presentation in ARTF 24005. Prerequisite: ARTF 14000.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTF 14055 SCULPTURE I

An introduction to the basic concepts of three-dimensional form. Work produced in this course must be retained for later portfolio presentation in ARTF 24005. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art
Course Attributes: TAG Arts/Humanities

ARTF 14060 PAINTING I

Opaque, water based media used to introduce fundamental form language and vocabulary of painting. Emphasis upon structured study and effective use of colors. Work produced in class must be retained for later portfolio presentation in ARTF 24005. Prerequisite: ARTF 14000.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art
Course Attributes: TAG Arts/Humanities

ARTF 24001 DRAWING III

Emphasis on continued development of drawing with focus on nonfigurative representations of pictorial space. Work produced in this course must be retained for later portfolio presentation in ARTF 24005. Prerequisite: ARTF 14001.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTF 24005 SOPHOMORE REVIEW: FINE ARTS

Diagnostic review by fine arts faculty of portfolio of work selected from "foundation" courses. Student's knowledge of art history is also examined. Student must receive a passing score (above average of C) to continue in degree program. Action by faculty committee may include the assignment of additional studio work over the normal graduation requirements in areas of apparent deficiencies. Prerequisite: ART 10022, ART 10023,



ARTF 14000, ARTF 14001, ARTF 14055, ARTF 14060, ARTH 22006, ARTH 22007, ARTF 24010 AND ARTF 24040.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 24010 INTRODUCTION TO FINE ART PHOTOGRAPHY

Introductory studio/lecture course which introduces fine art photography with an aesthetic, contemporary approach. Students learn traditional and digital photographic image-making applications and the historical underpinnings of the photograph in modern art. Research paper and portfolio required. Work produced in this class must be retained for later portfolio presentation in ARTF 24005. Prerequisite: ARTF 14000 and ARTF 14022.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 24040 PRINTMAKING I

Basic traditional and contemporary techniques of relief (woodcut, line-cut, etc.) And intaglio printing (etching, calligraphy, etc.) Work produced in this class must be retained for later portfolio presentation in ARTF 24005. Prerequisite: ARTF 14000.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 24055 SCULPTURE II

Continuation of sculpture I with greater emphasis on materials and processes. Prerequisite: ARTF 14055.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 24060 PAINTING II

Continuation of work begun in Painting I. Introduction to oil painting with emphasis upon direct painting from observed sources and study of expressive capabilities of painting. Prerequisite: ARTF 14060.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 34001 DRAWING IV

Further study and understanding of concepts and ideas which enable the student to understand and professionally realize their drawings. Prerequisite: ARTF 24001 and a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 34002 INTRODUCTION TO FIGURE DRAWING

Extensive studio practice of traditional and contemporary approaches to the human figure. Critical analysis of the figure from the Renaissance through postmodernism. Students work from a nude model.

Prerequisite: ARTF 14000, ARTF 14001, ARTF 24001 and a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 34040 PRINTMAKING: INTERMEDIATE INTAGLIO

Continuation of ARTF 24040 emphasizing individually assigned problems in intaglio with introduction to color intaglio techniques. Prerequisite: ARTF 24040 or a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 34041 SERIGRAPHY I

The initial presentation of fundamental concepts and processes pertaining to serigraphy. This course will include printing techniques and aesthetic considerations in the making of art. Prerequisite: ARTF 24040 and a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 34042 LITHOGRAPHY I

Introduction to stone lithography. Techniques of drawing and printing crayon, touché, transfer and color images and their relation to problems of drawing and composition. Prerequisite: ARTF 24040 and a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 34050 SCULPTURE: LIFE MODELING

Continuation of the study of the human figure in sculpture. Repeatable for a total of 6 credit hours. Prerequisite: ARTF 24055 and a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 34055 SCULPTURE III

A sculpture course with an emphasis on other conceptual approaches beyond the more formal and aesthetic considerations explored in Sculpture II. Prerequisite: ARTF 24055 and ARTF 24005 with a grade of S.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 34060 PAINTING III

Continuation of the painting experience in various media, using formal means of painting expressively. Prerequisite: ARTF 24060 and a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 44003 DRAWING V

Continuation of ARTF 34001. Prerequisite: ARTF 34001 and a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 44010 ADVANCED FINE ART PHOTOGRAPHY

Combined studio/lecture course offering more advanced, conceptual approaches to the contemporary applications of photographic imaging for artists. Students work with larger scale printing formats, more involved research and greater depth of involvement with the photographic medium. Prerequisite: ARTF 24010 and ARTF 24005 with a grade of S.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 44040 PRINTMAKING: ADVANCED INTAGLIO

Continuation of ARTF 34040 with special emphasis on color and photographic techniques intaglio. Prerequisite: ARTF 34040 and a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 44041 SERIGRAPHY II

Continuation of ARTF 34041 emphasizing individually assigned projects. Prerequisite: ARTF 34041 and a grade of S in ARTF 24005 and special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Art

ARTF 44042 LITHOGRAPHY II

Continuation of ARTF 34042 with emphasis on individually assigned projects and printing of editions. Experiments in color lithography plate and photolithography. Prerequisite: ARTF 34042 and a grade of S in ARTF 24005.

3.000 Credit hours

3.000 Other hours



Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTF 44043 ADVANCED PRINTMAKING

Advanced printmaking course with emphasis on students producing new, individually conceived visual works in printmaking in close consultation with faculty. Written proposal by students required at registration. Course may be repeated up to 9 credit hours. Prerequisites: Choose two (2) from the following: ARTF 34040 or 34041 or 34042 or 44040 or 44041 or 44042.
3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTF 44055 SCULPTURE IV

Advanced sculpture course with emphasis on students pursuing individually conceived problems in close consultation with faculty. Written proposal by students required at registration. Prerequisite: ARTF 34055 and a grade of S in ARTF 24005.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTF 44060 PAINTING IV

Advanced painting course with emphasis on students pursuing individually conceived problems in close consultation with faculty. Written proposal by students required at registration. Prerequisite: ARTF 34060 and a grade of S in ARTF 24005.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTF 44092 FIELD EXPERIENCE: TRAVEL STUDY IN FINE ART

Travel-based study/field experience in fine arts disciplines to and at a site or sites away from Kent State University. Prerequisite: Major in Fine Art or special approval of instructor.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Art

ARTF 44095 SELECTED TOPICS IN FINE ARTS

Special problems in studio art. Discussion, lecture and studio research in various selected media and concepts. Content varies each semester offered. Prerequisite: A grade of S in ARTF 24005.
1.000 TO 6.000 Credit hours
1.000 TO 6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art

ARTF 44096 INDIVIDUAL STUDY FINE ART

Additional study in area of student's choice in consultation with advisor. Prerequisite: Major in Fine Art and special approval.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Art

ARTF 44099 SENIOR PROJECT: FINE ARTS

Independently conceived project by senior fine art major, including written proposal and undergraduate thesis, culminating in an exhibition and review. Prerequisite: Senior standing a grade of S in ARTF 24005 and special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Senior Project/Honors Thesis
Department: Art
Course Attributes: Writing Intensive Course
ARTF 54091 SEMINAR: STUDIO
Contemporary issues related to visual arts explored through presentation, lecture and discussion. Guest speakers augment staff. Repeatable for a total of 9 hours. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Art

ARTF 54092 FIELD EXPERIENCE: TRAVEL STUDY IN FINE ART

Travel-based study/field experience in fine arts disciplines to and at a site or sites away from Kent State University. Prerequisite: Graduate standing in Fine Art or special approval by instructor.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Art

ARTF 64040 PRINTMAKING:INDIVIDUAL STUDY

Continued development on a personal direction in printmaking. Prerequisite: Special approval and graduate standing.
2.000 TO 10.000 Credit hours
10.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Art

ARTF 64050 SCULPTURE:INDIVIDUAL STUDY

Continued development of a personal direction in sculpture. Prerequisite: Graduate standing.
2.000 TO 10.000 Credit hours
10.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Art

ARTF 64060 PAINTING:INDIVIDUAL STUDY

Individual study, painting. Prerequisite: Special approval and graduate standing.
2.000 TO 10.000 Credit hours
10.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Art

ARTF 64096 INDIVIDUAL INVESTIGATION: FINE ART

Independent study in drawing, painting, printmaking or sculpture. IP Permissible. Prerequisites: graduate standing in MA or MFA program in fine art.
2.000 TO 10.000 Credit hours
3.300 TO 16.500 Other hours
Level: Graduate
Schedule Types: Individual Investigation, Studio
Department: Art

ARTF 64098 RESEARCH

Studio research in the visual arts. Prerequisite: Graduate standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Art

Art History (ARTH)

ARTH 12001 ART AS A WORLD PHENOMENON

An introduction to the history of art emphasizing analysis and interpretation of visual art forms. The course will also focus on the functions and meaning of Western and non-Western art traditions. No credit for art majors. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art
Course Attributes: Kent Core-Fine Arts, Transfer Module-Fine Arts

ARTH 22006 ART HISTORY I: ANCIENT AND MEDIEVAL ART

Examination and interpretation of the major monuments of Western art and architecture from Paleolithic art to late Gothic art. The impact of non-Western traditions will be included as appropriate. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art
Course Attributes: Kent Core-Fine Arts, TAG Arts/Humanities, Transfer Module-Fine Arts

ARTH 22007 ART HISTORY II: RENAISSANCE TO MODERN ART

Major movements and artists in painting, sculpture and allied arts of Europe and America from early Renaissance in Italy until the present day. The impact of non-



Western traditions will be included as appropriate. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

Course Attributes: Kent Core-Fine Arts, TAG Arts/Humanities, Transfer Module-Fine Arts

ARTH 22020 ART OF AFRICA, OCEANIA AND THE AMERICAS

Stylistic and historical investigation of the art and architecture of the traditional societies of Africa, Oceania and the Americas within an art historical and cross-cultural perspective. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

Course Attributes: Diversity Course-Global, Kent Core-Fine Arts, Transfer Module-Fine Arts

ARTH 32066 LATE MODERN ART

Painting, sculpture and allied arts in the United States and Europe from 1940 to the present. Prerequisite: ARTH 22007.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42000 RESEARCH AND WRITING IN ART HISTORY

Introduction to the basic techniques and resources for art history research. Provides assistance in the preparation of research papers and critical essays required by upper-division art history courses.

Prerequisite: Junior standing or above.

Corequisite: Upper-division art history course.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

Course Attributes: Writing Intensive Course

ARTH 42021 ARTS OF INDIA AND SOUTHEAST ASIA

Examination of sources and styles of Indian and Southeast Asian art from prehistoric to modern. Prerequisite: Sophomore, junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42022 THE ARTS OF CHINA

Examination of sources and styles of Chinese art from prehistoric to recent times. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42023 THE ARTS OF JAPAN

Examination of sources and styles of Japanese art, from prehistoric to recent times. Prerequisite: junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42025 ART OF WEST AFRICA

Arts, crafts and architecture of the western Sudanic and Guinea Coast areas of West Africa from prehistoric times to the present.

Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

Course Attributes: Diversity Course-Global

ARTH 42026 ART OF NIGERIA

Study of the arts, crafts and architecture of Nigeria from prehistoric times to the present. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

Course Attributes: Diversity Course-Global

ARTH 42027 ART OF CENTRAL AFRICA

Comparative study of the arts, crafts and architecture of Central Africa from prehistoric times to the present.

Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

Course Attributes: Diversity Course-Global

ARTH 42031 GREEK ART AND ARCHAEOLOGY

Greek art and architecture from earliest times through Hellenistic period with special attention given to recent archaeological discoveries. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42032 ROMAN ART AND ARCHAEOLOGY

Introduction to archaeology of Roman world. Emphasis on discoveries and impact on study of Italic, Etruscan and Roman art, architecture and sculpture through Imperial period. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42036 MEDIEVAL ART

Emphasis on major period of Medieval art (Byzantine, Carolingian, Ottoman, Romanesque and Gothic) treating iconographic themes and styles in a variety of media. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42039 GOTHIC ART, 12TH TO 15TH CENTURIES

An examination of the development of European Gothic art from the 12th century to the 15th century. Emphasis on the ties to contemporary philosophical and literary developments. Prerequisite: Art History (ARTH 22006 and 22007).

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42041 ITALIAN RENAISSANCE ART

Study of development of major themes in Italian art from 1400 until c. 1550 emphasizing achievements of the masters and analyzing major ideas and theories of the period. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42042 NORTHERN RENAISSANCE ART

Study of stylistic and iconographic questions and technique in Northern panel painting, as well as other arts in Northern Europe. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art

ARTH 42043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY

Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters, students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Art



ARTH 42044 VENETIAN RENAISSANCE ART

Course provides a survey of Venetian painting, sculpture and architecture from the late 1300's to the late 1500's. Upon completion students have a comprehension of the interrelationship of Venetian art with its unique environment and society. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42046 BAROQUE ART OF THE 17TH CENTURY

Study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42047 ROCOCO ART IN THE 18TH CENTURY

Study of 18th-century art in France and subsequent spread and development throughout continental Europe. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42051 EUROPEAN ART AND IDEAS: 1750-1900

Selected studies in late 18th-century and 19th-century British, French, German and Spanish art and architecture within the broader context of Western culture and ideas. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42056 AMERICAN ART: 1607-1860

Intensive survey of the major forms of art, styles personalities patrons institutions and aesthetic theories in the United States from its beginning to the Civil War. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42057 AMERICAN ART AND ARCHITECTURE: 1860-1940

In-depth study of American painting, sculpture, graphic art, architecture and allied arts from the Civil War to 1940. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Art

ARTH 42058 AMERICAN FILM, PHOTOGRAPHY, ART AND IDEAS

Investigation of photography from the 19th century to present day. Prerequisite: None. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42061 EARLY 20TH-CENTURY ART

Study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940. Prerequisite: ARTH 22007. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42062 PICASSO

Course provides a survey of the art of Picasso, starting with his childhood works. Students gain a better understanding of Picasso's pivotal importance to 20th century art and various influences that cultivated his incredible creativity. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42063 AMERICAN ART: EUROPEAN ROOTS

Examines the role of European roots in the formation of American art. The complex issues and identities artists faced as a result of the expatriate experience are addressed. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42067 ART OF THE 1960S

A survey of the major movement of the sixties decade, with primary emphasis on the United States. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42068 GENDER AND SEXUALITY IN THE ARTS

Examines how gender and sexuality correspond to a wide range of cultural meanings and experiences, and how artistic representations of gender and sexuality contribute to the production of subjectivity. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Art

ARTH 42070 HISTORY OF GRAPHIC DESIGN

Traces the arts of visual communication from their origins to current trends and practices with an emphasis on theory and aesthetics. Prerequisite: Junior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42071 HISTORY OF PRINTS

Chronological survey of printmaking (engraving, etching, lithography, etc.) From 1400 to the present emphasizing its technical and stylistic evolution. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42072 INTRODUCTION TO MUSEOLOGY

Art history course providing insights into the history of collecting, growth of museums and the scope of the museum field and specialized professional areas involved. Prerequisite: ARTH 12001 for non-art majors; ARTH 22006 and 22007 for art majors. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42075 FILM AND PHOTOGRAPHY IN WESTERN ART AND IDEAS

Selected studies on film and photography within the broader context of Western realism and ideas. ARTH 12001, 22007 or 42051 recommended. Prerequisite: Junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42078 HISTORY OF THE DECORATIVE AND APPLIED ARTS

Historical and critical examination of decorative and applied arts and their relationship to the Western societies which produced them. Prerequisite: ARTH 22006, 22007. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42091 ART HISTORY SEMINAR

Open format course with topics announced in advance. Designed to allow detailed examination of selected topics. Prerequisite: Junior standing and special approval of instructor. 3.000 Credit hours



3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Art

ARTH 42092 ART MUSEUM INTERNSHIP

A supervised internship in a regional art museum emphasizing the practical application of musicological principles and practices. Prerequisite: Junior or senior standing and ARTH 42072.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Art

ARTH 42095 SPECIAL TOPICS: ART HISTORY

Upper-division discussion and lecture course whose content changes in accordance with the interest and competence of faculty. Precise title to be inserted in Schedule of Classes.

Prerequisite: Junior or senior standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Art

ARTH 42096 INDIVIDUAL INVESTIGATION: ART HISTORY

Directed independent study with art history faculty. Prerequisite: Junior or senior standing.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Art

ARTH 42192 FIELD EXPERIENCE: TRAVEL STUDY IN ART HISTORY

Travel-based study/field experience in art history to and at a site or sites away from Kent State University. The primary benefit will be the observation and study of works of art first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites. Prerequisite: Major in art history or special approval of instructor.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Art

ARTH 52000 ART HISTORY RESEARCH METHODS AND RESOURCES

Introduction for art history graduate students to a wide variety of library and other resources for advanced research. Develops skills needed to prepare critical essays and art historical research papers. Prerequisite: Graduate standing in art history or permission.

2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52025 ART OF WEST AFRICA

Arts, crafts and architecture of the Western Sudanic and Guinea Coast areas of West Africa from prehistoric times to the present. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52026 ART OF NIGERIA

Study of the arts, crafts and architecture of Nigeria from prehistoric times to present. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52027 ART OF CENTRAL AFRICA

Study of the arts, crafts and architecture of Central Africa from prehistoric times to present. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52031 GREEK ART AND ARCHAEOLOGY

Greek art and architecture from earliest times through the Hellenistic period with special attention given to recent archaeological discoveries. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52032 ROMAN ART AND ARCHAEOLOGY

Introduction to archaeology of the Roman world. Emphasis on discoveries and impact on the study of Italic, Etruscan and Roman art, architecture and sculpture through Imperial period. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52036 MEDIEVAL ART

Emphasis on major periods of Medieval art (Byzantine, Carolingian, Ottoman, Romanesque and Gothic), treating iconographic themes and styles in a variety of media. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52039 GOTHIC ART: 12TH TO 15TH CENTURIES

An examination of the development of European Gothic art from the 12th to the

15th centuries. Students will research specific works of art. The course will put emphasis on contemporary historical philosophical and literary figures. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52041 ITALIAN RENAISSANCE ART

Study of development of major themes in Italian art from 1400 until about 1550, emphasizing achievements of the masters and analyzing major ideas and theories of the period. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52042 NORTHERN RENAISSANCE ART

Study of stylistic and iconographic questions and technique in northern panel painting, as well as other arts in Northern Europe. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52043 THE HIGH RENAISSANCE AND MANNERISM IN ITALY

Covers late 15th century and 16th century painting, sculpture and architecture in Italy. Following discussion of the High Renaissance masters students examine the works collectively known as the Mannerists. Course gives students a firm grounding in the manifold artistic activity of the 16th century. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52044 VENETIAN RENAISSANCE ART

Course provides a survey of Venetian painting, sculpture and architecture from the late 1300's to the late 1500's. Upon completion students will have a comprehension of Venetian art with its unique environment and society. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52046 BAROQUE ART IN EUROPE

A study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain. Prerequisite: Graduate standing.

3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52047 ROCOCO ART OF THE 18TH CENTURY

A study of 18th-century art in France and subsequent spread and development throughout continental Europe. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52051 EUROPEAN ART, 1750-1900

Selected studies in late 18th-century and 19th-century painting, sculpture architecture and allied arts of England, France, Germany and Spain. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52058 AMERICAN FILM, PHOTOGRAPHY, ART AND IDEAS

Key examples of photography from the 19th century to present day. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52061 EARLY 20TH-CENTURY ART

A study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52062 PICASSO

Course provides a survey of the art of Picasso, starting with his childhood works. Students gain a better understanding of Picasso's pivotal importance to 20th century art and the various influences that cultivated his incredible creativity. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52063 AMERICAN ART: EUROPEAN ROOTS

Examines the role of European roots in the formation of American art. The complex issues and identities artists faced as a result of the expatriate experience are addressed. Prerequisite: Graduate standing.
3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52066 LATE MODERN ART SINCE 1940

A study of painting, sculpture and allied arts in the United States and Europe from 1940 to the present. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52067 ART OF THE 1960S

A survey of major movements of the sixties decade, with primary emphasis on the United States. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52068 GENDER AND SEXUALITY IN THE ARTS

Examines how gender and sexuality correspond to a wide range of cultural meanings and experiences and how artistic representations of gender and sexuality contribute to the production of subjectivity. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52070 HISTORY OF GRAPHIC DESIGN

This course traces the arts of visual communication from their origins to current trends and practices with an emphasis on theory and aesthetics. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52078 HISTORY OF DECORATIVE AND APPLIED ARTS

Historical and critical examination of decorative and applied arts and their relationship to Western societies which produced them. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52095 SPECIAL TOPICS: ART HISTORY

Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Precise title

will be inserted in schedule of classes. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 52096 INDIVIDUAL INVESTIGATION: ART HISTORY

Directed independent study with art history faculty. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Art

ARTH 52192 FIELD EXPERIENCE: TRAVEL STUDY IN ART HISTORY

Travel-based study/field experience in art history to and at a site or sites away from Kent State University. The primary benefit will be the observation and study of works of art first hand, in addition to the presentation and discussion of historical and contextual factors. Time is made available for individual investigation of specific works sites. Prerequisite: Graduate standing in art history or special approval of instructor.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Art

ARTH 62056 AMERICAN ART: 1600-1860

Intensive survey of the major forms of art, styles, personalities patrons institutions and esthetic theories in the United States from its beginnings to the Civil War. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 62057 AMERICAN ART: 1860-1940

In-depth study of American painting, sculpture, graphic and allied arts from 1860 to 1940. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

ARTH 62071 HISTORY OF PRINTS

A chronological survey of printmaking (engraving, etching, lithography, etc.) From 1400 to the present emphasizing its technical and stylistic evolution. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Art

**ARTH 62072 INTRODUCTION TO MUSEOLOGY**

Art elective course providing insights into the history of collecting, growth of museums and the scope of the museum field and specialized professional areas involved.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Art

ARTH 62075 FILM AND PHOTOGRAPHY IN WESTERN ART AND IDEAS

Selected studies of film and photography within the broader context of Western Realism and ideas. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Art

ARTH 62091 ART HISTORY SEMINAR

Open format course with topics announced in advance. Designed to allow in-depth examination of selected topics. May be repeated up to a total of 9 hours.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Art

ARTH 62095 SPECIAL TOPICS: ART HISTORY

Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Special focus on problems and issues in the different areas of the discipline.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Art

ARTH 62096 SELECTED PROBLEMS-ART HISTORY

The course content changes each semester according to the topic, entailing discussion and lectures on specific problems issues and areas in art history. Prerequisite:

Permission. Repeatable for a total of 9

hours. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Art

ARTH 62098 RESEARCH

Independent research open only to art history graduate students who have completed course requirements for the Master of Arts degree. Prerequisite:

Graduate standing.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Art

Arts and Sciences (AS)**AS 10095 SPECIAL TOPICS**

This program, administered by the dean is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty. Prerequisite:

None.

1.000 TO 5.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AS 11001 FOUNDATIONS OF MODERN THOUGHT I

First semester course in which students learn eight ideas fundamental to contemporary thought through a wide variety of materials from social science, science and humanities. Offered at the regional campuses only. Prerequisite:

None.

4.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AS 11002 FOUNDATIONS OF MODERN THOUGHT II

The second course in which students learn eight ideas fundamental to contemporary thought through a wide variety of materials from social science, science and humanities. Offered at the regional campuses only. Prerequisite: AS 11001.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AS 20095 SPECIAL TOPICS

This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

Prerequisite: None.

1.000 TO 5.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AS 22001 INTRODUCTION TO JEWISH STUDIES

Introductory examination of issues of Jewish life, culture, religion and society from antiquity to the present. Prerequisite:

None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AS 22069 INTRODUCTION TO LESBIAN, GAY, BISEXUAL AND TRANSGENDERED STUDIES

An introductory examination of lesbian, gay, bisexual and transgender issues from an interdisciplinary perspective. Prerequisite:

None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AS 30095 SPECIAL TOPICS

This program, administered by the dean is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty. Prerequisite:

None.

1.000 TO 5.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AS 30196 INDIVIDUAL INVESTIGATION

(Repeated registration permissible) registration requires prior approval from the college of arts and sciences office.

Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Arts and Sciences

AS 30210 SOCIAL STRUCTURE AND PROCESSES IN EUROPE

Introduction to social life in today's Europe, contrasting the European situation with other parts of the world, predominantly, the United States. This course is only available for semester abroad. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AS 40095 SPECIAL TOPICS

This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty.

Prerequisite: None.

1.000 TO 5.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

AS 40197 RUSSIAN AREA STUDIES COLLOQUIUM

Interdisciplinary investigation of selected basic problems in 19th and 20th century Russia and the U.S.S.R. Prerequisite:

Special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium



Department: Arts and Sciences

AS 43001 LEGAL INFORMATION SOURCES AND SERVICES

Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources. Prerequisite: senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Arts and Sciences

AS 50095 SPECIAL TOPICS

Topic to be announced in the schedule of classes booklet. Repeated registration permitted when content varies. Prerequisite: Graduate standing and special approval.
1.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

AS 50096 INDIVIDUAL INVESTIGATION

Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member. Prerequisite: Graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Arts and Sciences

AS 53001 LEGAL INFORMATION SOURCES AND SERVICES

Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

AS 60220 BIOINFORMATICS

Theory, methods and computational approaches used to interpret large volumes of biosciences information reviews of major data repositories. An interdisciplinary research project is required. Prerequisite: Special approval and graduate standing.
4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Arts and Sciences

AS 61000 INTRODUCTION TO LIBERAL STUDIES

Introduction to history, philosophy and curricular structure of graduate liberal studies. Prerequisite: Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

AS 61095 LIBERAL STUDIES SEMINAR

An interdisciplinary seminar designed for candidates in the liberal studies program. Topics will vary. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Arts and Sciences

AS 61098 LIBERAL STUDIES ESSAY

The preparation of an essay of approximately 50 pages on a topic related to the student's program of study for the Master of Liberal Studies degree. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Arts and Sciences

AS 70095 SPECIAL TOPICS

Topic to be announced in the schedule of classes booklet. Repeated registration permitted when content varies. Prerequisite: Doctoral standing; special approval.
1.000 TO 5.000 Credit hours
5.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

AS 70096 INDIVIDUAL INVESTIGATION

Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member. Prerequisite: Doctoral standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Arts and Sciences

AS 73001 LEGAL INFORMATION SOURCES AND SERVICES

Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

Applied Social and Behavioral Research (ASBR)

ASBR 60002 QUANTITATIVE METHODS FOR APPLIED COMMUNITY-BASED RESEARCH

Introduces the basic concepts and methods of statistics as applied to diverse problems in applied social and behavioral research. Demonstrates methods of exploring, organizing and presenting data; and introduces fundamentals of probability, including probability distributions and conditional probability, with applications to 2X2 tables. Presents the foundations of statistical inference, including concepts of population, sample parameter and estimate; and approaches to inferences using the likelihood function, confidence intervals and hypothesis tests. Introduces and employs the statistical computing package to manipulate data and prepare students for remaining course work in this sequence. Prerequisite: graduate standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

ASBR 60004 THEORY AND METHODS IN QUALITATIVE RESEARCH

Provides an overview of the theory and methods of qualitative research for graduate students in the social and behavioral sciences. Examines the philosophy of qualitative research, data production and data analysis. Emphasis is placed on the application of qualitative methods to the resolution of communal and societal problems. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

ASBR 62020 SCIENCE OF COMMUNITY-BASED PREVENTION AND INTERVENTION RESEARCH I

Explores the science of research design and methodology for prevention and intervention research for graduate students in the social and behavioral sciences. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

ASBR 62030 SCIENCE OF COMMUNITY-BASED PREVENTION AND INTERVENTION RESEARCH II

Provides an overview of the science of prevention and intervention research for graduate students in the social and behavioral sciences. Examines prevention and intervention science, ethics and principles of community-based research.



Prerequisite: ASBR 62020 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

ASBR 63040 ADVANCED METHODS AND ANALYSIS FOR APPLIED COMMUNITY-BASED RESEARCH

Explores advanced statistical and methodological approaches to the study of violence and community behavioral health. Students examine issues related to the use of large, complex public health data sets. Analysis methods include: survival analysis, hierarchical linear modeling, advanced multiple regression models including those with nonparametric dependent variables, interrupted time series modeling and complex sampling techniques.

Prerequisites: ASBR 60002 and 60004 and 62020 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

ASBR 64632 ETIOLOGY OF AGGRESSION AND VIOLENCE

Provides an overview of the theories and research evidence concerning the etiology of aggressive and violent behavior.

Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

ASBR 64634 BEHAVIORAL HEALTH AND COMMUNITY STRUCTURE

Provides an overview of the reciprocal relationship between community structures and behavioral health. In particular, topics such as mental health, addictions, poverty, treatment interventions and prevention efforts are reviewed. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

ASBR 64654 GEO-SPATIAL ANALYSIS AND VIOLENCE PREVENTION

Provides an overview of the spatial nature of violence. Intermediate and advanced geo-spatial methods for identifying spatially structure community problems and strategies for assessing community interventions is taught. Prerequisites: GEOG 59070 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

ASBR 66195 SPECIAL TOPICS IN VIOLENCE RESEARCH

Intensive analysis of significant and current research related to violence prevention and intervention which are not covered in regular courses. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

ASBR 66395 SPECIAL TOPICS IN COMMUNITY BEHAVIORAL HEALTH

Intensive analysis of significant and current research related to community behavioral health that are not covered in regular courses. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

ASBR 67496 INDIVIDUAL INVESTIGATION IN APPLIED SOCIAL AND BEHAVIORAL RESEARCH

Intensive analysis of significant and current research related to violence prevention and intervention which are not covered in regular courses. Prerequisites: graduate standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Arts and Sciences

ASBR 68098 CAPSTONE RESEARCH EXPERIENCE IN APPLIED SOCIAL AND BEHAVIORAL RESEARCH

Student works with faculty advisor and community site(s) on relevant community-based research project. A paper (grant proposal, research study, needs assessment, etc.) that demonstrates the application of learned material which is review by a faculty committee. Written paper and oral defense required.

Prerequisites: ASBR 62030 and 63040; and special approval; and graduate standing.

1.000 TO 6.000 Credit hours

1.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Research

Applied Social/Behavioral Research

Department

American Sign Language (ASL)

ASL 19201 ELEMENTARY AMERICAN SIGN LANGUAGE I

Introduction to American Sign Language and the culture of the American signing community, in an immersion setting.

Prerequisite: None.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

ASL 19202 ELEMENTARY AMERICAN SIGN LANGUAGE II

A continuation of the introduction to American Sign Language and the culture of the American signing community, in an immersion setting. Cross listed with SPED 19202. Prerequisite: ASL 19201 or SPED 19201.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

ASL 19201 INTERMEDIATE AMERICAN SIGN LANGUAGE I

Continued development of receptive and expressive skills in American Sign Language and an introduction to ASL grammar, using a bilingual-bicultural approach and interaction with deaf organizations. Cross listed with SPED 29201. Prerequisite: ASL 19202 or SPED 19202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

ASL 19202 INTERMEDIATE AMERICAN SIGN LANGUAGE II

Continuation of ASL 29201 with an emphasis on greater exploration of American Sign Language sentence structure using a bilingual-bicultural approach. Students are involved in a community service project, providing a hands-on experience with using ASL within a community setting. Cross listed with SPED 29202. Prerequisite: ASL 29201 or SPED 29201.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

ASL 39201 ADVANCED AMERICAN SIGN LANGUAGE I

Students enhance receptive and expressive proficiency in an immersion setting through the use of both planned and impromptu in-class discussion of current and historic events and involvement in a community service project. Students are advised to begin planning this activity early in the semester. Successful completion of ASL 29201 portfolio review required prior to registration. Prerequisite: ASL 29202 or SPED 29202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies



ASL 39202 ADVANCED AMERICAN SIGN LANGUAGE II

Students continue to increase their receptive and expressive proficiency in American Sign Language in an immersion setting, through in-class formal and informal presentations, discussions of current and historical events, and working in groups to complete a semester project and a community service project. Prerequisite: ASL 39201 or SPED 39201.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ASL 49092 DEAF RESIDENTIAL SCHOOL PRACTICUM

In consultation with the ASL program coordinator, ASL students design a practicum experience related to signed languages and their communities. Successful presentation of cumulative portfolio required prior to registration. Prerequisite: ASL 29202 or SPED 29202.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Modern and Classical Language Studies

ASL 49096 INDIVIDUAL INVESTIGATION

Individual investigation of problems in American sign language, ASL pedagogy and or deaf culture. Prerequisite: Departmental permission.
2.000 OR 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Modern and Classical Language Studies

ASL 49108 AMERICAN SIGN LANGUAGE LINGUISTICS I

Lecture, discussion and application course designed to introduce students to basic linguistic terminology and concepts, as applied to American Sign Language (ASL) and taught using a bilingual-bicultural approach. Both ASL and English are used in the instruction of this class. Successful presentation of cumulative portfolio is required prior to registration in this course. Prerequisite: ASL 29202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ASL 49109 AMERICAN SIGN LANGUAGE LINGUISTICS II

Through lecture, in-class and out-of-class activities, and in-class presentations, students discuss, use, and respond to varied sentence structures and types of discourse in ASL, and compare these to English. Class is predominantly taught in ASL, but may at times use a bilingual

approach. Prerequisite: ASL 49108 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ASL 49201 ADVANCED PROFICIENCY

Students improve knowledge and use of American Sign Language and experiential knowledge of ASL culture through development, production, critique, revision and evaluation of an extended ASL presentation. This is an immersion class; voicing will not be used. Prerequisite: ASL 39202 and score of intermediate level on the Signing Competency Proficiency Interview.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ASL 49309 INTRODUCTION TO DEAF STUDIES

Introductory survey course provides informational base and understanding of experiences of deaf people as a cultural minority. Includes etiology and prevalence data, service delivery systems, diagnosis and assessment of issues and communication systems. 20 field hours. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Writing Intensive Course

ASL 49350 AMERICAN SIGN LANGUAGE LITERATURE

Through the use of multimedia resources, student explore the evolution of deaf literature, its historical context and multiple perspectives, and the techniques specific to ASL which make it unique. Conducted primarily in ASL, with some voicing and printed English. Prerequisite: ASL 39201 and 49309 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ASL 49401 DEAF CULTURE AND COMMUNITY

Students explore the different voices and perspectives which have been, and are, present within the deaf community, issues of controversy, myths and data, using a mix of ASL and English materials and discussion. Successful presentation of cumulative portfolio required prior to registration. Prerequisite: ASL 29202 and 49309 and special approval.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

ASL 49601 ACTIVITY DESIGN, IMPLEMENTATION AND EVALUATION

Student improve receptive and expressive skills and develop ability to analyze and break down specific ASL skills into more basic components; voicing is not used. In addition to classroom time, a minimum of 90 minutes per week working in the KSU ASL lab and/or (with permission) off-campus site. Prerequisites: ASL 39202 and passage of the Signing Competency Proficiency Interview at an intermediate level.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

Aerospace Studies (ASTU)

ASTU 10101 THE FOUNDATION OF THE UNITED STATES AIR FORCE I

Survey course providing an introduction to the United States Air Force and ROTC. Officership and military customs and courtesies are discussed. Foundations of Air Force communication are covered. Prerequisite: None.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Academic Affairs

ASTU 10102 THE FOUNDATION OF THE UNITED STATES AIR FORCE II

Survey course looks at the origin and organization of the Air Force. Selected topics contributing to an understanding of the Air Force are covered. Prerequisite: None.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Academic Affairs

ASTU 10103 LEADERSHIP LABORATORY

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes. Prerequisite: None.
1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Academic Affairs

**ASTU 10104 LEADERSHIP LABORATORY**

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes. Prerequisite: None.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Academic Affairs

ASTU 20101 EVOLUTION OF UNITED STATES AIR FORCE AIR AND SPACE POWER I

Survey course examines air and space power from an historical perspective. Course covers early flight and World War I to the Korean War and ICBMS. Prerequisite: None.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Academic Affairs

ASTU 20102 EVOLUTION OF THE UNITED STATES AIR FORCE AIR AND SPACE POWER II

Survey course examines air and space power from an historical perspective. Course covers period from the Vietnam War to the Gulf War plus a look at the Air Force of the future. Prerequisite: None.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Academic Affairs

ASTU 20103 LEADERSHIP LABORATORY

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes. Prerequisite: None.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Academic Affairs

ASTU 20104 LEADERSHIP LABORATORY

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes. Prerequisite: None.

1.000 Credit hours

1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Academic Affairs

ASTU 30101 LEADERSHIP STUDIES I

Study of leadership, professional knowledge and communication skills required for an air force officer. The role of a leader as supervisor and counselor is discussed. Prerequisite: Permission.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Academic Affairs

ASTU 30102 LEADERSHIP STUDIES II

Study of quality management fundamentals and communication skills for the air force officer. The air force personnel evaluation system and military ethics are discussed. Prerequisite: Permission.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Academic Affairs

ASTU 30103 LEADERSHIP LABORATORY

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes. Prerequisite: None.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Academic Affairs

ASTU 30104 LEADERSHIP LABORATORY

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes. Prerequisite: None.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Academic Affairs

ASTU 40101 DEFENSE STUDIES I

Course examines the political, economic and social constraints upon national security and defense structure. The role of the military including joint operations is discussed. Regional defense issues studies. Prerequisite: Permission.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Academic Affairs

ASTU 40102 DEFENSE STUDIES II

The role of the military and regional defense are studied. Current air force issues and other topics relevant to preparing an air force officer for active duty are covered. Prerequisite: Permission.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Academic Affairs

ASTU 40103 LEADERSHIP LABORATORY

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes. Prerequisite: None.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Academic Affairs

ASTU 40104 LEADERSHIP LABORATORY

An instructional program that prepares an individual to undertake the broad range of technical tasks associated with military leadership and defense management. This course is optional for university academic credit; however, it is mandatory for Air Force ROTC credit for scholarship or commissioning purposes. Prerequisite: None.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Academic Affairs

Athletic Training (ATTR)**ATTR 15001 INTRODUCTION TO PROFESSION OF ATTR**

An overview of the profession of athletic training; including employment opportunities, academic and clinical preparation; and introduction to basic knowledge and skills utilized in the profession. Prerequisite: Athletic training (ATTR) major.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

ATTR 15011 INTRODUCTION TO CLINICAL ATHLETIC TRAINING

Basic concepts and skills related to the professional domains of the athletic training profession. Arc certification in first aid and CPR and overview of career opportunities are included. Prerequisite: Athletic training (ATTR) major.



2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

ATTR 15092 PRACTICUM IN ATHLETIC TRAINING I

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the introductory cognitive, psychomotor and affective components. Clinical hours and completion of specific competencies are required. Prerequisite: ATTR 15011 and special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Health Sciences

ATTR 25036 PRINCIPLES OF ATHLETIC TRAINING

Principles of the profession, including injury prevention, basic sports trauma, injury management and specific sports conditions. Practical competency in emergency care and first aid; athletic taping, wrapping and bracing; and equipment fitting. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

ATTR 25037 PHYSICAL ASSESSMENT TECHNIQUES FOR THE LOWER EXTREMITY AND SPINE

Anatomical and clinical assessment techniques for injuries and illnesses common to the physically active. Emphasis on orthopedic assessment strategies of the upper and lower quarters and spine for proper referral and care. Prerequisite: ATTR 25036; and ATTR 25057 or EXSC 25057.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

ATTR 25038 PHYSICAL ASSESSMENT TECHNIQUES FOR THE UPPER EXTREMITY, HEAD AND NECK

Anatomical and clinical assessment techniques for injuries and illnesses with specific emphasis on orthopedic and neurological assessment strategies for the upper extremity, head and neck. Proper referral and care procedures are also be addressed. Prerequisites: ATTR 25036 and ATTR 25037; and ATTR 25057 or EXSC 25057.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

ATTR 25057 HUMAN ANATOMY AND PHYSIOLOGY I

Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, cardiovascular, nervous and respiratory systems are addressed. Prerequisite: none.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

ATTR 25058 HUMAN ANATOMY AND PHYSIOLOGY II

Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed. Prerequisite: ATTR 25057 or EXSC 25057.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

ATTR 25092 PRACTICUM IN ATHLETIC TRAINING II

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the intermediate cognitive, psychomotor and affective components. Clinical hours and completion of specific competencies are required. Prerequisite: ATTR 15092.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Health Sciences

ATTR 35025 ESSENTIALS OF ATHLETIC INJURY MANAGEMENT

Common injuries related to physical activity and/or athletic participation from the cause, management and care perspectives. American Red Cross sport safety training certification (including adult/child CPR) will be granted. Emphasis on application of skills. Prerequisite: None.
1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Health Sciences

ATTR 35037 ADVANCED PHYSICAL ASSESSMENT TECHNIQUES

Anatomical, medical and clinical assessment techniques for injuries and illnesses common to the physically active. Emphasis on neurological and non-orthopedic assessment strategies for proper referral and care. Prerequisite:

ATTR 25037 and 25038; and ATTR 25058 or EXSC 25058.

3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

ATTR 35039 THERAPEUTIC MODALITIES

The study and practical application of physical modalities including physical principles, physiologic effects, indications/contraindications and standard application procedures. Safety and legal issues of modality usage are also addressed. Prerequisite: ATTR 25036.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

ATTR 35040 STRENGTH AND CONDITIONING I

Demonstrate didactic understanding and clinical application of energy systems, anatomy and proper techniques for strength and conditioning exercises for practical applications with athletes. Prerequisites: PEP 25057; and athletic training (ATTR) or physical education-professional (PEP) major.
1.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Health Sciences

ATTR 35045 EMERGENCY MEDICAL TECHNICIAN-BASIC

Preparing for Emergency Medical Technician certification including patient assessment, airway and cardiac management, trauma management, medical patient management and clinical experience. Prepares students to challenge the National Registry Examination for the State of Ohio for EMT-Basic. Clinical hours are required for this course through Hudson EMS. Prerequisites: ATTR 25036.
5.000 Credit hours
2.000 Lecture hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

ATTR 35054 BIOMECHANICS

Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory. Prerequisite: ATTR 25057 or EXSC 25057; and ATTR 25058 or EXSC 25058.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

**ATTR 35092 PRACTICUM IN ATHLETIC TRAINING III**

The study and clinical application of the competencies in athletic training educational domains. Specific emphasis on the intermediate and advanced cognitive, psychomotor and affective components. Clinical hours and completion of specific competencies are required. Prerequisite: ATTR 25092.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Health Sciences

ATTR 45017 PROFESSIONAL DEVELOPMENT IN ATHLETIC TRAINING

An investigation of the issues affecting the student athletic trainer as they prepare for an entry-level career in athletic training.

Professional development issues and NATABOC exam preparation are included.

Prerequisite: Senior standing; athletic training majors only.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

ATTR 45038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING

Investigation into current philosophies and legal aspects of athletic training.

Organization and administration of all aspects of athletic training programs.

Prerequisite: ATTR 25036.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

ATTR 45039 THERAPEUTIC REHABILITATION

The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration and guidelines for program progression.

Prerequisite: ATTR 25036; and ATTR 25057 or EXSC 25057.

4.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Health Sciences

ATTR 45040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS

Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatment and physiologic effects for various afflictions. Prerequisite: ATTR 25058 or EXSC 25058.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

ATTR 45091 SENIOR SEMINAR IN ATHLETIC TRAINING

Contemporary issues related to preparing students for entry-level careers in the athletic training profession including development of the foundational behaviors of professional practice. Specific emphasis on employment preparation or graduate school preparation. Prerequisites: senior standing and athletic training (ATTR) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Seminar

Department: Health Sciences

ATTR 45096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING

Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.

Repeatable for a maximum of 6 credit hours.

Prerequisite: special approval.

1.000 TO 3.000 Credit hours

3.000 TO 9.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Health Sciences

ATTR 45192 PRACTICUM IN ATHLETIC TRAINING IV

The study and clinical application of competencies in athletic training educational domains. Specific emphasis on the advanced cognitive, psychomotor and affective components. Clinical hours and completion of specific competencies are required. Prerequisite: ATTR 35092.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Health Sciences

ATTR 45292 INTERNSHIP IN ATHLETIC TRAINING I

Internship in approved athletic training setting under the direct supervision of a certified athletic trainer. Students complete 20 hours per week in a clinical experience. Prerequisite: ATTR 45192 and special approval.

3.000 Credit hours

1.000 Lecture hours

20.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Practicum

Department: Health Sciences

ATTR 45392 INTERNSHIP IN ATHLETIC TRAINING II

Internship in an approved athletic training setting under the supervision of a certified and licensed athletic trainer. Students are required to perform 20 hours per week in clinical experience. Prerequisite: ATTR 45292 and special approval.

3.000 Credit hours

1.000 Lecture hours

20.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Practicum

Department: Health Sciences

ATTR 46095 SPECIAL TOPICS IN ATHLETIC TRAINING

Selected topics in athletic training dependent upon interest. Prerequisites: none.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

ATTR 55038 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING

Investigation into current philosophies and legal aspects of athletic training.

Organization and administration of all aspects of athletic training programs.

Prerequisite: ATTR 25036 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

ATTR 55039 THERAPEUTIC REHABILITATION

The study and clinical application of rehabilitation techniques including strategies for proper exercise selection based on anatomical and physiological considerations, program administration, and guidelines for program progression.

Prerequisites: graduate standing.

4.000 Credit hours

3.000 Lecture hours

2.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Health Sciences

ATTR 55040 PATHOLOGY AND PHARMACOLOGY FOR ALLIED HEALTH CARE PROVIDERS

Investigation of specific pathological conditions presented by professionals, including physicians and pharmacists. Will discuss common pathologies, associated pharmacological treatments and physiologic effects for various afflictions. Prerequisite: ATTR 25058 or EXSC 25058

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

ATTR 62010 CONTEMPORARY ISSUES IN ATHLETIC TRAINING

A comprehensive examination of contemporary issues, trends and problems affecting athletic training professionals related to the domains of practice for athletic trainers. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Health Sciences

ATTR 62012 EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING

A comprehensive examination of educational learning theories, curriculum design, evaluation and supervision strategies in athletic training education programs from didactic and clinical perspectives. Additional applications for continuing education programs will be included. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

ATTR 62014 ADVANCED CLINICAL PRACTICE IN ATHLETIC TRAINING

A comprehensive examination of advanced topics in athletic training such as advanced evaluation skills, multi-dimensional approaches to therapeutic rehabilitation skills and applications in non-traditional athletic training settings such as industrial medicine and physician extender. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

ATTR 62016 CLINICAL INQUIRY IN ATHLETIC TRAINING

Principles of athletic training research methodologies with a focus on clinical athletic training research. Completion of a clinical research project will be required in this course. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

ATTR 63018 ETHICS FOR ALLIED HEALTH PROFESSIONALS

Examination of specific situations in the allied health professions of athletic training and exercise science from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based upon contemporary moral issues and moral theory related to clinical and academic health professionals. Prerequisites: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

ATTR 63095 RESEARCH SEMINAR

Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. Prerequisite: Graduate standing. 1.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

ATTR 63096 INDIVIDUAL INVESTIGATION IN ATHLETIC TRAINING

Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration. Repeatable to 6 credit hours. Prerequisites: graduate standing and special approval. 1.000 TO 3.000 Credit hours
3.000 TO 9.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Health Sciences

ATTR 63098 RESEARCH

Research or individual investigation. Repeated registration permitted. Prerequisite: Graduate standing. 1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Health Sciences

ATTR 63193 VARIABLE TITLE WORKSHOP IN ATHLETIC TRAINING

Workshop in athletic training; topics vary. Repeated registration permitted. Maximum 4 hours applied to the degree. Prerequisites: graduate standing. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Health Sciences

ATTR 63195 SPECIAL TOPICS IN ATHLETIC TRAINING

Selected and varied topics of relevance in athletic training. Repeatable for a total of 6 credit hours. Prerequisites: graduate standing. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

ATTR 63199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired. Prerequisite: Graduate standing. 2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Health Sciences

ATTR 63299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: ATTR 63199 and graduate standing. 2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Health Sciences

ATTR 65004 BIOMECHANICS

Survey of biomechanics, with particular emphasis on skeletal muscle mechanics. Prerequisites: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

ATTR 73095 RESEARCH SEMINAR

Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. Prerequisite: Doctoral standing. 1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

Business Administration (BAD)

BAD 60092 MBA INTERNSHIP

Practical experience with a commercial or non-profit organization under the guidance of a member of the graduate faculty. Periodic progress reports are required with a graduate level quality paper and possible presentation at the end of the course. Prerequisite: Graduate standing and special approval. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Business Administration

BAD 60093 VARIABLE TITLE WORKSHOP-BUSINESS ADMINISTRATION

Workshops on selected business administration subjects designed to meet needs of special groups. Prerequisite: Graduate standing. 1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Business Administration

BAD 60095 SPECIAL TOPICS IN BUSINESS ADMINISTRATION

In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest. Repeated enrollment for different topics is permitted. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 60096 INDIVIDUAL INVESTIGATION

For M.B.A., M.S. or M.A. candidates who have completed a minimum 12 hours of work of superior quality with permission of the director graduate school of



management. Prerequisite: Graduate standing and special approval.
2.000 OR 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Business Administration

BAD 60098 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves. Prerequisite: Graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Business Administration

BAD 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Business Administration

BAD 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: BAD 60199.
Graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Business Administration

BAD 61093 WORKSHOP IN COLLEGE TEACHING

A series of seminars devoted to enhancing doctoral students' teaching abilities. This course is open to all doctoral students but is intended for students newly enrolled in the program. Prerequisite: Graduate standing.
1.000 OR 2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Business Administration

BAD 61094 COLLEGE TEACHING

Training, supervision and evaluation in college level instruction. Maximum of 2 hours applicable toward degree. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 OR 2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 68051 BUSINESS PROFESSIONAL DEVELOPMENT

Development of professional business skills for the full-time MBA student to use in career development during and after graduation. Students must continue registration each semester until all degree

requirements are met. Prerequisite: admission to MBA program.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

BAD 70092 MBA INTERNSHIP

Practical experience with a commercial or non-profit organization under the guidance of a member of the graduate faculty. Periodic progress reports are required with a graduate-level quality paper and possible presentation at the end of the course. Prerequisite: Special approval and doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Business Administration

BAD 70093 VARIABLE TITLE WORKSHOP

Workshops on selected business administration subjects designed to meet needs of special groups. Prerequisite: Doctoral standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Business Administration

BAD 70198 RESEARCH

Research or individual investigation for doctoral level students, or master's students with at least 34 hours of graduate coursework. Prerequisite: Doctoral standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Business Administration

BAD 71093 WORKSHOP IN COLLEGE TEACHING

A series of seminars devoted to enhancing doctoral students' teaching abilities. This course is open to all doctoral students but is intended for students newly enrolled in the program. Prerequisite: Doctoral standing.
1.000 OR 2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Business Administration

BAD 71094 COLLEGE TEACHING

Training, supervision and evaluation in college level instruction. Maximum of 2 hours applicable toward degree. Prerequisite: Doctoral standing.
1.000 OR 2.000 Credit hours
1.000 OR 2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72021 BUSINESS CONDITIONS ANALYSIS AND PUBLIC POLICY

Analysis of forces determining economic growth, employment, inflation and international competitiveness, with emphasis on understanding the business cycle and government stabilization policies. Prerequisite: BAD 64005 (may be taken concurrently). Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72022 MANAGERIAL ECONOMICS

Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently. Prerequisite: BAD 64005; and MATH 11012 or MATH 12002 or ECON 62010; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72050 MICROECONOMIC THEORY I

Comprehensive analysis of methodology of economics, consumer behavior, production and costs, the firm, markets and welfare economics. It would be useful if the student had some facility in integral and differential calculus. Prerequisite: ECON 62022.
Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72051 MACROECONOMIC THEORY I

Analysis of the determination of the level of income, employment, inflation, economic growth, consumption, investment, money demand and supply, the international sector and economic policy are discussed. Prerequisite: ECON 62021; ECON 62022; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72054 ECONOMETRICS I

Introduction to problems and methods of the empirical estimation of economic relationships. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72055 ECONOMETRICS II

Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation



by single equation and systems estimation.
Prerequisite: ECON 62054 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72056 TIME SERIES ANALYSIS

Covers various linear and nonlinear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor.
Prerequisite: Permission of instructor; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72061 MONETARY THEORY AND POLICY

A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and, problems related to the conduct of monetary policy. Prerequisite: ECON 62021; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72071 LABOR ECONOMICS

Theoretical and applied analyses of wage determination, the supply of skills, labor market discrimination, and the effects of trade unions and government policies.
Prerequisite: ECON 62022; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72075 INTERNATIONAL TRADE

Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy.
Prerequisite: ECON 62021 and ECON 62022; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72076 INTERNATIONAL FINANCE

Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and, international capital flows.

Prerequisite: ECON 62021; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72077 ECONOMIC PROBLEMS OF DEVELOPING AREAS

In-depth analysis of selected topics and issues in development economics.
Prerequisite: ECON 52076. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72078 SEMINAR IN INTERNATIONAL ECONOMICS

Analysis of recent contributions and current problems in international trade and finance.
Prerequisite: ECON 62075 and 62076.
Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72180 REGIONAL ECONOMICS

Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.
Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 72182 PUBLIC EXPENDITURE AND COST BENEFIT ANALYSIS

Theoretical and applied aspects of public expenditure and cost benefit analysis. Uses economic theory to appraise public expenditure alternatives in advanced and developing countries. Prerequisite: ECON 62022; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 73038 ACCOUNTING FOR MANAGERIAL ACTION AND EVALUATION

Review of cost accounting concepts and cost behavior. In depth study of analyzing costs for pricing and product mix decisions activity based cost systems budgeting planning and control issues methods of remaining competitive in a global environment compensation issues.
Prerequisite: Special approval and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Business Administration

BAD 74004 QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I

Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 80091 DOCTORAL SEMINAR

A continuing seminar for all students in the Ph.D. program which cuts across all areas of functional specialization. Prerequisite: Admission to Ph.D. program.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Business Administration

BAD 80098 RESEARCH

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Usually research applied toward dissertation. Prerequisite: Ph.D. standing, special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Business Administration

BAD 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Special approval and doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Business Administration

BAD 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: BAD 80199. Doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Business Administration

BAD 84011 SYSTEMS SIMULATION

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulation studies, analysis of interpretation and of results. Prerequisites: special approval and doctoral standing.
3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Business Administration

BAD 84023 LINEAR STATISTICAL MODELS

Linear statistical models for regression and analysis of variance. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

Business Management and Related Technology (BMRT)

BMRT 11000 INTRODUCTION TO BUSINESS

(Equivalent to BUS 10123) Overview of social, economic and consumer environments as related to large and small business. Emphasis is on production, marketing, finance, management and human resources. Prerequisites: US 10006 or Compass reading score minimum 86; and ENG 11001 or Compass writing score minimum 67.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 11006 BUSINESS COMPUTATIONS I

Application of algebraic and arithmetic concepts to accounting, finance and marketing. Computation of finance charges, taxes, fundamentals of inventory control and depreciation. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 11009 INTRODUCTION TO MANAGEMENT TECHNOLOGY

(Equivalent to MIS 24163) Study of planning, organizing, directing/leadership, controlling, staffing, decision making, and communication theories and management applications of human and material resources and methods. Prerequisite: US 10006 or appropriate test score; and ENG 11001 or appropriate test score.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21000 BUSINESS LAW AND ETHICS I

(Equivalent to FIN 26074) Introduction to American law as related to government, business, society and the ethical issues that occur in the legal environment. Emphasis will focus on contract law. Relevant past

and current law issues will be addressed. Prerequisite: US 10006 or appropriate test score; and ENG 11001 or appropriate test score.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21002 BUSINESS LAW AND ETHICS II

This course is a continuation of Business Law and Ethics I. Topics include commercial paper, insurance, real property, partnerships and corporations, security devices and bankruptcy. Prerequisite: BMRT 21000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21004 INTRODUCTION TO BUSINESS STATISTICS

(Equivalent to MIS 24056) Basic decision making statistics for business management. Emphasis is on probability theory, statistical inferences and decision making under uncertainty. Prerequisite: MATH 10023 or MATH 10024 or MATH 10009 or MATH 11010.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21005 PURCHASING AND SUPPLY MANAGEMENT

Practical approach to the material acquisition, management and supply chain function in the American business system. Prerequisite: BMRT 11000 or special approval of full-time BMRT faculty.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21006 HUMAN RESOURCES MANAGEMENT

(Equivalent to MIS 34180) The study of contemporary issues of human resources. Covers planning, job design, selection, appraisal, compensation, training, life quality, safety/health, diversity and unions. Prerequisite: BMRT 11009.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21008 CASE STUDIES IN MANAGEMENT TECHNOLOGY

Application of management theory to actual business situations. Emphasis on decision making and evaluation of methods and styles of management in all functional areas. Prerequisite: Special approval of BMRT faculty only.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21009 SEMINAR IN MANAGEMENT TECHNOLOGY

Last semester students of business management technology engage in critical reading, writing and discussion to apply business theory to on-the-job experiences. Prerequisite: BMRT 21008 or special approval of full-time BMRT faculty.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21011 FUNDAMENTALS OF FINANCIAL MANAGEMENT

Understanding basic financial reports for analysis and performance of a business. Preparation of sales forecasts to develop capital and expense budgets. Prerequisite: ACTT 11000 and COMT 11000 or special approval of BMRT faculty.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21020 INTRODUCTION TO ENTREPRENEURSHIP

Provides information about the functional elements of starting a small business. Includes the use of instruments, exercises and case analyses to assess entrepreneurial skills. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21023 FINANCING THE BUSINESS VENTURE

Course deals with determining capital needs, identifying sources of capital, developing a financial plan and interpreting financial statements. Both public and private loan programs will be reviewed. Prerequisite: BMRT 21020 or special approval of full-time BMRT faculty.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21050 FUNDAMENTALS OF MARKETING TECHNOLOGY

(Equivalent to MKTG 25010) Study of the basic concepts and principles involved in marketing a product/service with an emphasis on the marketing mix variables: product, price, place and promotion. Prerequisite: BMRT 11000 and ECON 22060.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate



Schedule Types: Lecture
Department: Regional College

BMRT 21051 FUNDAMENTALS OF RETAILING

A survey of retailing that emphasizes skills necessary for store organization, location, layout, pricing, merchandising and inventory control. New retail concepts are stressed. Prerequisite: BMRT 11000 or special approval of BMRT faculty.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21052 PROFESSIONAL SELLING TECHNIQUES

Study of personal selling as a promotional technique to determine and satisfy the needs of buyers and to build a long-term relationship among all parties. Prerequisite: BMRT 11000 or special approval of full-time BMRT faculty.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21053 ADVERTISING IN BUSINESS

A practical approach to the study of advertising. Emphasis is on the effective use of the media creating advertising operations and advertising management. Prerequisite: BMRT 21050 or special approval of BMRT faculty.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21054 INSURANCE PRINCIPLES

Introduction to the types of insurance, risk management and ethics of insurance. Other topics to be addressed are contract law and retirement planning. Prerequisite: BMRT 11000 or special approval of BMRT faculty.
2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21055 RETAIL MERCHANDISING

Principles and procedures of retail merchandising. Problem solving for merchandising and utilization of mathematical models. Procedures for planning and control of merchandise. Prerequisite: BMRT 21051 or special approval of BMRT faculty.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21056 PRINCIPLES OF VISUAL DISPLAY

Basic principles of visual display. Introduction to basic equipment used in display work. Window and interior displays in department and specialty stores. Prerequisite: BMRT 21051 or special approval of BMRT faculty.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21092 INTERNSHIP IN MANAGEMENT TECHNOLOGY

Students participate in a supervised educational experience. Each credit hour requires a minimum of seven hours work without pay or 10 hours work with pay per week for 15 weeks. Prerequisite: special approval of full time BMRT faculty.
1.000 TO 3.000 Credit hours
7.000 TO 21.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Regional College

BMRT 21095 SPECIAL TOPICS

(repeated registration permitted) special topics in business technology announced when scheduled. Prerequisite: Permission of full time BMRT faculty.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

BMRT 21096 INDIVIDUAL INVESTIGATION IN BUSINESS TECHNOLOGY

Individual study in business and related fields. Open to business technology students only. Prerequisite: special approval from full-time BMRT faculty.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

Biomedical Sciences (BMS)

BMS 60120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES

Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once. Prerequisite: Special approval and graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60194 COLLEGE TEACHING IN BIOMEDICAL SCIENCES

Training and experience in college teaching in the biomedical sciences. Maximum of 2 hours applicable toward degree. Prerequisite: Graduate standing.
1.000 OR 2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60196 INDIVIDUAL INVESTIGATION

Directed investigation under supervision of faculty member in biomedical sciences and with prior approval. May be repeated to maximum of 6 semester hours for letter grade. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60198 RESEARCH

Research for master's level graduate students. Credits earned may be applied toward degree requirements if department approves. Repeated registration is permitted. Prerequisite: Special approval of adviser and graduate standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60199 THESIS I

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Special approval of adviser and graduate standing.
2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60220 HUMAN MICROSCOPIC ANATOMY

Morphological basis for normal and disturbed functions; structure-function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues. Prerequisite: BSCI 5/70517 or special approval of instructor. Graduate standing.
5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

**60221 ULTRASTRUCTURE OF THE CELL**

Functional organization of cells of the ultrastructural level; topographical and cytochemical electron microscopical techniques. Dynamic interactions between cells and their milieu and between organelles in normal and pathological conditions. Prerequisite: Special approval of instructor and graduate standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60230 PRINCIPLES OF ELECTRON MICROSCOPY

Principles of electron microscopy will be presented with demonstrations of equipment and techniques as applied to biological materials. Prerequisite: Special approval of instructor and graduate standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60240 MEDICAL MICROBIOLOGICAL IMMUNOLOGY

An in-depth study of eukaryotic and prokaryotic microorganisms, virology and immunology at the biochemical molecular and genetic level and their relationship to disease. Prerequisite: BSCI 30171 and CHEM 50245 or 50247. Graduate standing.

5.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING

Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed. Prerequisite: BSCI 5/70158 and CHEM 5/70247 or BMS 6/70268. Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60257 RESEARCH PROPOSAL

Preparation and defense of a formal research proposal modeled after the format of the National Institutes of Health. Prerequisite: Special approval and graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60267 MOLECULAR PATHOLOGY I

Biochemical principles will be applied to explain the mechanism of human diseases in terms of defects in molecular structures and metabolic pathways. Prerequisite:

CHEM 50245 or 50247. Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60268 MOLECULAR PATHOLOGY II

Biochemical principles will be applied to explain the mechanism of human diseases in terms of defects in molecular structures and metabolic pathways. Prerequisite: BMS 6/70267. Graduate standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY

Credits may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Special approval and graduate standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Prerequisite: Special approval and graduate standing.

2.000 TO 5.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: 6 hours of BMS 60199. Graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60440 CELLULAR AND MOLECULAR SIGNALING

The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes, and regulation, transcription factors, cell cycle signaling, and cell-cell communication. Prerequisite: BSCI 40143 or BSCI 50143 or BSCI 70143; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

BMS 60449 MEDICAL PHYSIOLOGY I

Biophysical and biochemical concepts of integrative organ system physiology in the human: cardiovascular, pulmonary, exercise and temperature regulation physiology. Prerequisite: BSCI 40430 and special approval. Graduate standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60450 MEDICAL PHYSIOLOGY II

Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology. Prerequisite: BSCI 40430 and special approval. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60451 MICROCIRCULATION

Theory and practical application of current techniques to evaluate fluid and solute exchange across the micro-vascular wall. Prerequisite: BSCI 5/70433 and 5/70434 or BMS 6/70449 and 6/70450 and special approval. Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 60452 PULMONARY PHYSIOLOGY

Relationship between structure and function of the lung with focus on mechanics, circulation, gas exchange, gas transport, acid/base regulation, regulation, host-defense and ventilation perfusion. Prerequisite: BSCI 5/70433 and 5/70434 or BMS 6/70449 and 6/70450. Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60461 INTEGRATIVE PHYSIOLOGY OF THE CARDIOVASCULAR SYSTEM

Critical analysis of the integrative neurohumoral regulation of the cardiovascular system at rest and during stress. Special emphasis on peripheral and central mechanisms involved in regulation of the circulation. Prerequisite: BSCI 5/70433, 5/70434 or BMS 6/70449, 6/70450 and special approval. Graduate standing. 2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60491 SEMINAR IN MEDICAL PHYSIOLOGY

Credits may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Special approval and graduate standing. 1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60495 SPECIAL TOPICS IN MEDICAL PHYSIOLOGY

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Prerequisite: Special approval and graduate standing. 2.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60550 MEDICAL PHARMACOLOGY I

General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60551 MEDICAL PHARMACOLOGY II

Continuation of BMS 60550/70550. Prerequisite: BMS 6/70550. Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60557 DRUG MECHANISMS IN THE BRAIN

The mechanisms of centrally acting drugs on brain function. The different classes of neuroactive drugs will be considered according to their effects at different levels of central nervous system organization: structure, physiology and biochemistry/molecular biology. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60558 PSYCHOACTIVE DRUGS

The effects of pharmacological agents on the physiology and pathophysiology of the mammalian nervous system. Utilizing both classic and recent literature, basic research findings will be correlated with clinical therapeutics of specific human disease states. Prerequisite: BMS 6/70557. Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60561 NEUROPHARMACOLOGY

The effects of various classes of pharmacological agents on the physiology and pathophysiology of the mammalian nervous system via discussion of classical and current literature. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences

BMS 60591 SEMINAR IN PHARMACOLOGY

Credits may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Special approval and graduate standing. 1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60595 SPECIAL TOPICS IN PHARMACOLOGY

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Prerequisite: Special approval and graduate standing.

2.000 TO 5.000 Credit hours
2.000 TO 5.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY

Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs. Prerequisite: Special approval and graduate standing. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60710 FUNCTIONAL NEUROANATOMY

Study of structure and function of mammalian nervous system with emphasis on human brain and human behavior. Five hours of lecture three hours of laboratory and recitation weekly. Prerequisite: Special approval and graduate standing. 6.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60711 DEVELOPMENTAL AND EVOLUTIONARY NEUROBIOLOGY

Experimental studies of the development and evolution of the vertebrate central nervous system. Prerequisite: BMS 6/70710 and special approval. Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 60729 CELLULAR AND MOLECULAR NEUROSCIENCE

The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology. Lecture, discussion and laboratory. Prerequisites: BMS 6/70710, graduate standing and special approval of instructor. 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

**BMS 60791 SEMINAR IN NEUROBIOLOGY**

Credits may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Special approval and graduate standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Biomedical Sciences

BMS 60795 SPECIAL TOPICS IN NEUROBIOLOGY

Study of problems of current importance. Content dependent on student requirements and on developments in field. Prerequisite: Special approval and graduate standing.

2.000 OR 3.000 Credit hours

2.000 OR 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 61000 RESPONSIBLE CONDUCT OF RESEARCH

Introduction to professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research. Prerequisite: graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

BMS 61001 INTRODUCTION TO BIOMEDICAL SCIENCES

Seminar for all students in Biomedical Sciences. Repeat registration permitted. Prerequisite: Graduate standing in the School of Biomedical Sciences; biological anthropology (BANT), biomedical mathematics (BMT), cellular and molecular biology (CMBI), Neurosciences (NEUR), Pharmacology (PHRM), physiology interdisciplinary (PSII).

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Seminar

Department: Biomedical Sciences

BMS 68610 HUMAN GROSS ANATOMY I

An intensive survey of human macromorphology. Lecture two hours per week. Laboratory six hours per week. Prerequisite: Special approval and graduate standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 68611 HUMAN GROSS ANATOMY II

An intensive survey of human macromorphology 10 week course which continues BMS 6/78610. Lecture two hours per week. Laboratory six hours per week. Prerequisite: BMS 6/78610. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70120 LABORATORY TECHNIQUES IN BIOMEDICAL SCIENCES

Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once. Prerequisite: Doctoral standing and special approval.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70194 COLLEGE TEACHING IN BIOMEDICAL SCIENCES

Training and experience in college teaching in the biomedical sciences. Maximum of 2 hours applicable toward degree. Prerequisite: Doctoral standing.

1.000 OR 2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70196 INDIVIDUAL INVESTIGATION

Directed investigation under supervision of faculty member in biomedical sciences and with prior approval. Prerequisite: Doctoral standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70220 HUMAN MICROSCOPIC ANATOMY

Morphological basis for normal and disturbed functions; structure-function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues. Prerequisite: BSCI 5/70517 or special approval of instructor. Doctoral standing.

5.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70221 ULTRASTRUCTURE OF THE CELL

Functional organization of cells of the ultrastructural level; topographical and cytochemical electron microscopical techniques. Dynamic interactions between cells and their milieu and between organelles in normal and pathological conditions. Prerequisite: Special approval of instructor. Doctoral standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70230 PRINCIPLES OF ELECTRON MICROSCOPY

Principles of electron microscopy will be presented with demonstrations of equipment and techniques as applied to biological materials. Prerequisite: Special approval of instructor. Doctoral standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70240 MEDICAL MICROBIOLOGICAL IMMUNOLOGY

An in-depth study of eukaryotic and prokaryotic microorganisms, virology and immunology at the biochemical molecular and genetic level and their relationship to disease. Prerequisite: BSCI 30171 and CHEM 50245 or 50247. Doctoral standing.

5.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70251 THEORY AND PRACTICE OF CLONING AND GENETIC ENGINEERING

Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed. Prerequisite: BSCI 5/70158 and CHEM 5/70247 or BMS 6/70268. Doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70257 RESEARCH PROPOSAL

Preparation and defense of a formal research proposal modeled after the format of the national institutes of health. Prerequisite: Doctoral standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Biomedical Sciences



Course Attributes: Joint Program/ Consortia Agreement

BMS 70267 MOLECULAR PATHOLOGY I

Biochemical principles will be applied to explain the mechanism of human diseases in terms of defects in molecular structures and metabolic pathways. Prerequisite: CHEM 50245 or 50247. Doctoral standing. 2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70268 MOLECULAR PATHOLOGY II

Biochemical principles will be applied to explain the mechanism of human diseases in terms of defects in molecular structures and metabolic pathways. Prerequisite: BMS 6/70267. Doctoral standing. 4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70291 SEMINAR IN CELLULAR AND MOLECULAR BIOLOGY

Credits may be applied toward degree if department approves. Prerequisite: Special approval. Doctoral standing. 1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70295 SPECIAL TOPICS IN CELLULAR AND MOLECULAR BIOLOGY

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Prerequisite: Special approval. Doctoral standing. 2.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70440 CELLULAR AND MOLECULAR SIGNALING

The relevant and current topics associated with cellular signaling will be covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication. Prerequisite: BSCI 40143 or BSCI 50143 or BSCI 70143; and doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences

BMS 70449 MEDICAL PHYSIOLOGY I

Biophysical and biochemical concepts of integrative organ system physiology in the human: cardiovascular, pulmonary, exercise and temperature regulation physiology. Prerequisite: BSCI 40430 and special approval. Doctoral standing. 4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70450 MEDICAL PHYSIOLOGY II

Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology. Prerequisite: BSCI 40430; one year college physics and college chemistry (including organic) and special approval. Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70451 MICROCIRCULATION

Theory and practical application of current techniques to evaluate fluid and solute exchange across the microvascular wall. Prerequisite: BSCI 5/70433 and 5/70434 or BMS 6/70449 and 6/70450 and special approval. Doctoral standing. 2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70452 PULMONARY PHYSIOLOGY

Relationship between structure and function of the lung with focus on mechanics, circulation, gas exchange, gas transport, acid/base regulation, regulation, host-defense and ventilation perfusion. Prerequisite: BSCI 5/70433 and 5/70434 or BMS 6/70449 and 6/70450. Doctoral standing. 2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70461 INTEGRATIVE PHYSIOLOGY OF THE CARDIOVASCULAR SYSTEM

Critical analysis of the integrative neurohumoral regulation of the cardiovascular system at rest and during stress. Special emphasis on peripheral and central mechanisms involved in regulation of the circulation. Prerequisite: BSCI 5/70433, 5/70434 or BMS 6/70449, 6/70450 and special approval. Doctoral standing. 2.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70491 SEMINAR IN MEDICAL PHYSIOLOGY

Credits may be applied toward degree if department approves. Prerequisite: Special approval. Doctoral standing. 1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70495 SPECIAL TOPICS IN MEDICAL PHYSIOLOGY

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Prerequisite: Special approval. Doctoral standing. 2.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70550 MEDICAL PHARMACOLOGY I

General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70551 MEDICAL PHARMACOLOGY II

Continuation of BMS 60550/70550. Prerequisite: BMS 6/70550. Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70557 DRUG MECHANISMS IN THE BRAIN

The mechanisms of centrally acting drugs on brain function. The different classes of neuroactive drugs will be considered according to their effects at different levels of central nervous system organization: structure, physiology and biochemistry/molecular biology. Prerequisite: Special approval. Doctoral standing. 3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 70558 PSYCHOACTIVE DRUGS

The effects of pharmacological agents on the physiology and pathophysiology of the mammalian nervous system. Utilizing both classic and recent literature, basic research findings will be correlated with clinical therapeutics of specific human disease states. Prerequisite: BMS 6/70557. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70561 NEUROPHARMACOLOGY

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

BMS 70591 SEMINAR IN PHARMACOLOGY

Credits may be applied toward degree if department approves. Prerequisite: Special approval. Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70595 SPECIAL TOPICS IN PHARMACOLOGY

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Prerequisite: Special approval. Doctoral standing.

2.000 TO 5.000 Credit hours

2.000 TO 5.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70596 INDIVIDUAL INVESTIGATION IN PHARMACOLOGY

Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs. Prerequisite: Special approval. Doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70710 FUNCTIONAL NEUROANATOMY

Study of structure and function of mammalian nervous system with emphasis on human brain and human behavior. Five hours of lecture, three hours of laboratory and recitation weekly. Prerequisite: Special approval. Doctoral standing.

6.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70711 DEVELOPMENTAL AND EVOLUTIONARY NEUROBIOLOGY

Experimental studies of the development and evolution of the vertebrate central nervous system. Prerequisite: BMS 6/70710 and special approval. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70729 CELLULAR AND MOLECULAR NEUROSCIENCE

The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental neurobiology. Lecture, discussion and laboratory.

Prerequisites: BMS 6/70710, doctoral standing and special approval of instructor.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

BMS 70791 SEMINAR IN NEUROBIOLOGY

Credits may be applied toward degree if department approves. Prerequisite: Special approval. Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 70795 SPECIAL TOPICS IN NEUROBIOLOGY

Study of problems of current importance. Content dependent on student requirements and on developments in field. Prerequisite: Special approval. Doctoral standing.

2.000 OR 3.000 Credit hours

2.000 OR 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 78610 HUMAN GROSS ANATOMY I

An intensive survey of human macromorphology. Lecture two hours per week. Laboratory six hours per week. Prerequisite: Special approval. Doctoral standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 78611 HUMAN GROSS ANATOMY II

An intensive survey of human macromorphology; a 10 week course which continues BMS 6/78610. Lecture two hours per week. Laboratory six hours per week. Prerequisite: BMS 6/78610. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 78612 PRIMATE ANATOMY

Lecture and laboratory dissection of primate cadaver from major taxonomic groups of the order primates. Emphasis on musculoskeletal and nervous systems. Prerequisite: Special approval. Doctoral standing.

5.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 78613 PLEISTOCENE HOMINID MORPHOLOGY

An intensive examination of fossil hominids of the plio-pleistocene. Prerequisite: Special approval. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 78621 PALEODEMOGRAPHY AND OSTEOLOGY

An examination of the methods and theory of the use of prehistoric human remains in the reconstruction of extinct populations. Prerequisite: Special approval. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement



BMS 78622 HUMAN POPULATION STRUCTURE AND BIOLOGICAL DEMOGRAPHY

An intensive investigation of the principles of biological demography; includes emphasis on theories of selection and mating structure. Prerequisite: Special approval. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78623 HUMAN VARIATION

A detailed anthropological examination of the causes and extent of modern human variability. Prerequisite: Special approval. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78624 PRIMATE ETHOLOGY

Detailed examination of the principles of primate ethology, including evolutionary trends in ecology, dominance, locomotion and social behavior. Prerequisite: Special approval. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78625 DENTAL ANTHROPOLOGY

Study of the human and primate dentition as it relates to primate and human evolution. Includes general orofacial biology. Prerequisite: Special approval. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78626 PRIMATE PALEONTOLOGY

Survey of primate evolution and taxonomy up to the emergence of modern hominids. Prerequisite: Special approval. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78630 PRINCIPLES OF BIOLOGICAL ANTHROPOLOGY

Graduate-level introduction to the field of biological anthropology. Topics include

genetics, human variation, fossil and modern primates and early man. Prerequisite: Special approval. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78631 SKELETAL BIOMECHANICS I: STATICS

Fundamentals of statics and their application to biological structures; emphasis on solution of statics problems of increasing difficulty. Applications to bones and joints of primates. Prerequisite: Doctoral standing.
5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78632 SKELETAL BIOMECHANICS II: DYNAMICS

Continuation of Biomechanics I. Introduction to kinematics and kinetics with application to human and primate locomotion. Computer analysis of bone strength. Prerequisite: BMS 78631. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78637 BIOANTHROPOLOGICAL DATA ANALYSIS I

Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures. Prerequisite: Doctoral standing.
5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78638 BIOANTHROPOLOGICAL DATA ANALYSIS II

This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple sample problems and regression methods. It also includes computer applications. Prerequisite: BMS 78637. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences

Course Attributes: Joint Program/ Consortia Agreement

BMS 78691 SEMINAR IN BIOLOGICAL ANTHROPOLOGY

Credits may be applied toward degree if department approves. Prerequisite: Special approval. Doctoral standing.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 78692 FIELD WORK IN PALEOANTHROPOLOGY

Excavation and/or field survey of Miocene and/or plio-pleistocene hominid localities. Prerequisite: Special approval. Doctoral standing.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Biomedical Sciences

BMS 78695 SPECIAL TOPICS IN BIOLOGICAL ANTHROPOLOGY

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. Prerequisite: Special approval. Doctoral standing.
2.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 80198 RESEARCH

Research for doctoral students who have not yet passed candidacy examination. Prerequisite: Special approval of adviser. Doctoral standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

BMS 80199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Students must successfully complete the doctoral exam before taking this course. Prerequisite: Doctoral standing and special approval.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

**BMS 80299 DISSERTATION II**

Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisites: 30 hours of BMS 80199 and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Biomedical Sciences
Course Attributes: Joint Program/ Consortia Agreement

Biological Sciences (BSCI)

BSCI 10001 HUMAN BIOLOGY

Study of the scientific method and life's properties, emphasizing human biology. Topics include energy, genetics, reproduction, development disease, nutrition and physical fitness in humans. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

BSCI 10002 LIFE ON PLANET EARTH

Explores the fascinating breadth of life on Earth including the unique ecology and survival strategies of animals, plants and microbes in their natural habitats. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

BSCI 10003 LABORATORY EXPERIENCE IN BIOLOGY

Introductory college-level laboratory in biology for non-majors. Two hours of laboratory per week. Pre/corequisite: BSCI 10001 or 10002.
1.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Biological Sciences
Course Attributes: Kent Core-Basic Sciences

BSCI 10010 LAKE ERIE ENVIRONMENTAL SCIENCE

Principles and concepts of aquatic sciences and their relationship and application to marine business ventures in the Great Lakes region. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Biological Sciences

BSCI 10100 ANATOMY FOR VETERINARY TECHNICIANS

Compare/identify anatomy and basic physiological functions of domestic animals: skeletal, muscles, integumentary, special sense organs, respiratory, digestive, urinary, reproductive, mammary glands, endocrine, nerves, circulatory, immune. Lecture 4 hours, laboratory 3 hours weekly. Prerequisite: None.
5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 10110 BIOLOGICAL DIVERSITY

Considered first course in biology majors' sequence. Examines the biodiversity of life from its origins to present-day microbes, plants and animals; their behavior, ecology and reproduction. Field trips. Prerequisite: None.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 10120 BIOLOGICAL FOUNDATIONS

Considered second course in biology majors sequence. Examines organization of life from subcellular biochemistry and molecular biology to genetics, bioenergetics and system homeostasis. Three-hour lecture and three-hour lab weekly. Field trips. Prerequisite: None.
4.000 Credit hours
3.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences
Course Attributes: TAG Science

BSCI 10195 SPECIAL TOPICS IN BIOLOGY

Selected subjects and/or themes in biology. Prerequisite: special approval.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 11001 ANATOMY FOR PHYSICAL AND OCCUPATIONAL THERAPY

This course covers the organization of the human body with emphasis on the structure and function of the neuro-musculoskeletal systems. Prerequisite: None.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 11010 ANATOMY AND PHYSIOLOGY I FOR ALLIED HEALTH

Anatomy and physiology to include organization of the human body, cells,

tissues, organs and systems, integumentary, skeletal, muscular and respiratory systems and overviews of the nervous and circulatory system. Prerequisite: special approval.
3.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 11020 ANATOMY AND PHYSIOLOGY II FOR ALLIED HEALTH

Anatomy and physiology of the circulatory, digestive, urinary, nervous, endocrine and reproductive systems. Prerequisite: BSCI 11010 and special approval.
3.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 16001 HORTICULTURAL BOTANY

To provide students with an understanding of the basic anatomy and physiology and growth characteristics of plants. Lecture two hours weekly, lab three hours weekly. Offered only at the Geauga and Salem campuses. Prerequisite: None.
3.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 20001 ZOOLOGICAL FOUNDATIONS OF MEDICINE

General zoology, including elements of human and mammalian physiology, anatomy and histology. Lecture two hours, laboratory four hours weekly. Prerequisite: Controlled registration (required of first year students in Phase I of NEOUCOM's combined B.S./M.D. program).
4.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 20020 BIOLOGICAL STRUCTURE AND FUNCTION

Basic design of human systems emphasizing the physiochemical and cellular bases of organ-system structure, function and development. Lecture four hours, laboratory three hours weekly. Prerequisite: None.
5.000 Credit hours
4.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
All Sections for this Course
Department: Biological Sciences
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

**BSCI 20021 BASIC MICROBIOLOGY**

Principles of microorganisms having a direct relationship on the health and well-being of man. Prerequisite: BSCI 20020; or BSCI 10100 and 10110.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 20022 BASIC MICROBIOLOGY LABORATORY

Laboratory experience in microbiology. Three hours of laboratory per week. Cannot be used to satisfy degree requirements for biology majors. Corequisite: BSCI 20021.
1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Biological Sciences

BSCI 20195 SPECIAL TOPICS IN BIOLOGY

Selected subjects and/or themes in Biology. Prerequisite: special approval.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 20196 INTRODUCTION TO INDIVIDUAL INVESTIGATION

Introduction to research in the biological sciences under the direction of a BSCI faculty mentor. Prerequisite: 8 hours of BSCI courses with a minimum grade of C (2.0) in those courses. Departmental and faculty mentor approvals required.
1.000 TO 2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Biological Sciences

BSCI 20275 LOCAL FLORA

Identification and field study of local plants: native, naturalized and cultivated. Lecture two hours, lab six hours weekly. Prerequisite: BSCI 10110 and 10120.
4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 26002 ECOLOGICAL PRINCIPLES OF PEST MANAGEMENT

Basic principles of integrated pest management, pesticide application, pest identification and environmental effects. Lecture three hours weekly; offered only at the Salem Campus. Prerequisite: BSCI 16001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 26003 PLANT IDENTIFICATION AND SELECTION I

Identification and selection of horticulturally important plant species. Emphasis on woody species, shrubs and trees. Lecture two hours weekly, lab three hours weekly. Offered only at the Salem Campus. Prerequisite: HORT 16001 and BSCI 16001.
3.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 26004 PLANT IDENTIFICATION AND SELECTION II

Identification and selection of horticulturally important plant species. Emphasis on herbaceous species, ground covers and vines. Lecture two hours weekly, lab three hours weekly. Offered only at the Salem Campus. Prerequisite: BSCI 16001 and HORT 16001.
3.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 30005 CAREER PATHWAYS IN BIOLOGY

Orients students toward various career pathways in the biological sciences. Prerequisites: BSCI 10110 and 10120.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 30030 HUMAN PHYSIOLOGY

Integrating mechanisms, pharmacological and pathological considerations for selected organ systems. Prerequisite: BSCI 20020; or 10110 and 10120; and 9 hours chemistry.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 30050 HUMAN GENETICS

Modern concepts of genetics applicable to the human including examination of genetically related diseases and their societal implications. Lecture three hours weekly. Prerequisite: 8 hours of biology 5 hours of chemistry.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 30140 CELL BIOLOGY

Investigation of the cell as the fundamental unit of life with an emphasis on the relationship between cellular structure and function. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and

10120 and CHEM 10060 and 10061 and 10062 and 10063.
4.000 Credit hours
3.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 30156 ELEMENTS OF GENETICS

Principles of organic mechanisms for expression and transmission of traits as studied in molecules, cells, organisms and populations. Lecture three hours weekly. Prerequisite: BSCI 10110 and 10120.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 30171 GENERAL MICROBIOLOGY

Fundamental principles of microbiology and of organisms including their structure, physiology, genetics, pathogenicity, classification, mechanisms of cultivation and control. Lecture three hours, lab three hours weekly. Prerequisite: BSCI 30140; CHEM 10060, 10061, 10062 and 10063.
4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 30267 PLANT PHYSIOLOGY

Survey of physiological and biochemical processes, their interactions and effect on plant growth and behavior. Lecture three hours, lab three hours weekly. Prerequisite: BSCI 30140; CHEM 10060, 10061, 10062 and 10063.
4.000 Credit hours
3.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 30270 GENERAL PLANT BIOLOGY

Covers all topics in modern plant biology, including molecular and cellular biology, physiology, anatomy, development, ecology, evolution and diversity. Prerequisite: BSCI 10010 and BSCI 10120.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 30271 GENERAL PLANT BIOLOGY LABORATORY

Laboratory and greenhouse exercises in general plant biology. Prerequisite: BSCI 10110 and BSCI 10120. Corequisite: BSCI 30270
1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Biological Sciences

**BSCI 30274 FORESTRY**

Management of the forest resource within appropriate environmental constraints for sustained use relative to watershed protection, lumber production, recreation and wildlife. Prerequisite: BSCI 10110 and 10120.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 30275 LOCAL FLORA

Identification and field study of local plants: native, naturalized and cultivated. Two-hour lecture and six-hour lab weekly.

Prerequisites: BSCI 10110 and 10120.

4.000 Credit hours

2.000 Lecture hours

6.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 30277 ECONOMIC BOTANY

Biology of plants important to man and their relation to climate and geography. Lecture two hours weekly. Prerequisite: BSCI 10110 and 10120.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 30360 GENERAL ECOLOGY

Principles of ecology based on field studies of local plant and animal communities.

Lecture three hours, lab three hours weekly. Prerequisite: BSCI 10110 and 10120; junior or senior standing.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 30361 BIOGEOGRAPHY

Geographical distribution of biotic communities with special reference to North America and to their environmental control.

Lecture three hours weekly. Prerequisite: BSCI 10110 and 10120.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 30362 INTRODUCTION TO BIOLOGY OF THE TROPICS

Biology and conservation of tropical ecosystems and organisms. Prerequisite: BSCI majors and junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 30518 VERTEBRATE ANATOMY

Concepts and methods of functional morphology. Comparative study of vertebrate organs and systems: skeletal, muscular, digestive, respiratory, circulatory, urogenital, nervous and endocrine. Lecture three hours, lab three hours weekly. Prerequisite: BSCI 10110 or 10120.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 30519 VERTEBRATE EMBRYOLOGY AND DEVELOPMENTAL ANATOMY

Gametogenesis, fertilization, embryogenesis, organogenesis, normal/abnormal embryological development; emphasizing mammal; amphibian, bird illustrating general principles and concepts. Laboratory studies of frog, chick, pig developmental anatomy. Three one hour lectures and one three hour lab. Prerequisite: BSCI 20001 or 30518 and 30140.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 30520 INTRODUCTION TO NEUROSCIENCE

Basic principles in neuroscience from the cellular to systems level. Covers how the nervous system is organized, how it detects sensory stimuli to create a mental representation of their environment and output pathways by which the nervous system can control movement, hormone levels and physiological processes.

Prerequisite: BSCI 30140.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 30560 INVERTEBRATE ZOOLOGY

Survey of the animal kingdom emphasizing evolutionary developments. Three-hour lecture and three-hour lab weekly.

Prerequisites: BSCI 10110 and 10120.

4.000 Credit hours

3.000 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 30580 ENTOMOLOGY

Classification, biology and ecology of the principal groups of insects. Lecture three hours, lab three hours weekly. Prerequisite: BSCI 10110, 10120 and 10 hours of biology (BSCI) courses.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 30582 ORNITHOLOGY

Field study of natural history of local birds. Lecture three hours, lab three hours weekly. Prerequisite: BSCI 10110 and 10120.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 40020 BIOLOGY OF AGING

Aging in cells, plants and animals, including man; maintaining human health during aging; current theories of aging. Lecture three hours weekly. Prerequisites: BSCI 20020 and CHEM 10050 and CHEM 10052.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 40099 SENIOR HONORS THESIS

Honors thesis research project completed during the senior year with BSCI faculty mentor and research committee. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours. Prerequisite: Departmental faculty mentor and honors college approval.

1.000 TO 10.000 Credit hours

10.000 Other hours

Level: Undergraduate

Schedule Types: Senior Project/Honors Thesis

Department: Biological Sciences

BSCI 40142 BIOENERGETICS

Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles.

Lecture three hours weekly. Prerequisite: BSCI 30140 and CHEM 20481 or 30481.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 40143 EUKARYOTIC CELL BIOLOGY

Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly. Prerequisite: BSCI 30140 and CHEM 20481 or 30481.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 40146 DEVELOPMENTAL MECHANISMS

Fundamental concepts and paradigms of development as exemplified by major model organisms, with main focus on



modern molecular and genetic understanding of developmental mechanisms. Prerequisite: senior standing, B or better in BSCI 30156 and BSCI 30410.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40150 MOLECULAR MECHANISMS OF DISEASE: CANCER

Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature. Prerequisite: junior or senior standing, BSCI 30156 and BSCI 30140.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40158 MOLECULAR BIOLOGY

Molecular genetics, DNS and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies. Prerequisite: BSCI 30140 and 30156.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40159 MOLECULAR BIOLOGY LAB

Experience in research methods for studying cellular and molecular processes in plant and animal systems. Lab meets 6 hours weekly. Prerequisite: BSCI 30140; BSCI 40143 or 40158; CHEM 20481 or 30481; CHEM 30475.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 40160 MARINE BIOLOGY

Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours. Prerequisite: BSCI 10110 and BSCI 10120.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40162 SOIL BIOLOGY

The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development. Prerequisite: junior or senior standing, BSCI 10110 and BSCI 10120.
3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40163 ORGANIC EVOLUTION

History of evolutionary theory, the evidences of evolution, the evolutionary forces and the products of these forces. Lecture three hours weekly. Prerequisite: BSCI 30156 and 4 hours of biology (BSCI) courses.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40164 MOLECULAR SYSTEMATICS AND PHYLOGENETICS

Modern methods used in systematics, DNA sequencing, DNA fingerprinting, phylogenetic analysis and interpretation of character evolution. Three hours lecture and 3 hours lab weekly. Prerequisite: BSCI 40163.

4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 40165 HISTORY OF BIOLOGY

Historical development of biology from antiquity to the present. Lecture two hours weekly. Prerequisite: BSCI 10110 and 10120.

2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40170 STREAM BIOLOGY

Identification, biology and ecology of stream-inhabiting organisms. Lecture two hours, lab three hours weekly. Prerequisite: BSCI 10110 and 10120.

3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 40174 IMMUNOLOGY

Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lectures 3 hours weekly. Prerequisite: BSCI 30171 and CHEM 10060, 10061, 10062 and 10063.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40191 SENIOR SEMINAR

A capstone seminar course to examine biological topics and scientific contributions across sub disciplines. Discussion of

current problems in the biological sciences related to societal needs and concerns. Prerequisite: biology (BSCI) major and senior standing.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Biological Sciences

BSCI 40192 INTERNSHIP IN BIOLOGICAL SCIENCES

Work experience and training in the biological sciences under the supervision of appropriate personnel in a government agency, nonprofit organization or business. Maximum of 4 credit hours to count toward BSCI degrees as upper division elective hours. Prerequisite: 18 hours of biology and 2.75 minimum GPA in biology (BSCI) coursework and special approval.
3.000 TO 12.000 Credit hours
12.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Biological Sciences

BSCI 40193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES

Topics to be offered will meet specific needs in the biological sciences. S u graded. Prerequisite: Permission.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Biological Sciences

BSCI 40195 SPECIAL TOPICS IN BIOLOGY

Special topics in biology. Prerequisite: 18 hours of biology (BSCI) coursework and special approval of instructor.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
2.000 TO 6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
All Sections for this Course
Department: Biological Sciences

BSCI 40196 INDIVIDUAL INVESTIGATION

Research study under the direction of a BSCI faculty mentor. May be repeated; however, a maximum of 6 credit hours count toward BSCI degrees as upper-division elective hours. Prerequisite: A minimum BSCI grade average of 2.75 and at least 18 credit hours of BSCI coursework. Departmental and faculty mentor approvals required.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Biological Sciences

BSCI 40269 BIOLOGY OF THE ALGAE

Morphology, ecology and systematics of freshwater and marine algae. Lecture three hours, lab three hours weekly. Prerequisite: BSCI 10110, 10120 plus 10 hours of biology (BSCI) coursework.



4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 40272 PLANT ANATOMY
Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, lab six hours weekly. Prerequisite: BSCI 10110 and 10120.
4.000 Credit hours
2.000 Lecture hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 40275 SYSTEMATIC BOTANY
Biosystematics, angiosperm, phylogeny, survey of some major families of dicotyledons. Lecture three hours, lab three hours weekly. Prerequisite: BSCI 10110 and 10120.
4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 40277 MORPHOLOGY OF LOWER PLANTS
Nonvascular plants, emphasizing structure, reproduction, evolution, fossil history, economic, ecological and medical importance. Lecture three hours, lab three hours weekly. Prerequisite: BSCI 10110 and 10120.
4.000 Credit hours
3.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 40360 ICHTHYOLOGY
Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly. Prerequisite: junior standing, grade of C (2.0) or better in both BSCI 10110 and BSCI 10120.
4.000 Credit hours
3.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 40363 MICROBIAL ECOLOGY
Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; biochemical cycles; current techniques; emphasis on bacteria in aquatic systems. Pre- or corequisite BSCI 30171, 30360.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40364 LIMNOLOGY
Field and laboratory study of the principles of aquatic ecology. Recitation one hour, lecture two hours, lab three hours weekly. Prerequisite: BSCI 30360.
4.000 Credit hours
3.000 Lecture hours
0.500 Lab hours
0.500 Other hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture, Recitation
Department: Biological Sciences

BSCI 40367 LIMNOLOGICAL TECHNIQUES
Analysis and significance of ecologically important variables and constituents of surface waters. Lecture one hour, lab four hours weekly. Prerequisite: BSCI 40364.
2.000 Credit hours
3.000 Lecture hours
4.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 40368 WETLAND ECOLOGY AND MANAGEMENT
Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, lab 3 hours weekly. Prerequisite: BSCI 10110 and 10120 and 10 hours of biology (BSCI) coursework.
4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 40369 LAKE MANAGEMENT
Lecture/discussion related to management of lakes and reservoirs, emphasizing eutrophication problems. Current literature and problem solving techniques emphasized. Lecture three hours weekly. Prerequisite: BSCI 40364.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40372 POPULATIONS, COMMUNITIES AND ECOSYSTEMS
Integrated investigation of population, community and ecosystem ecology from historical and current perspectives. Community and ecosystem views of nutrient dynamics and biodiversity provide a framework for consideration of food web patterns, energy flow and, ecosystem stability and function. Prerequisite: BSCI 30360 and 40163.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40374 CONSERVATION BIOLOGY
Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life. Prerequisite: BSCI 30360.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40376 TROPICAL FIELD BIOLOGY AND CONSERVATION
Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Prerequisite: junior or senior standing, BSCI 10110 and BSCI 10120.
5.000 Credit hours
3.000 Lecture hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 40430 ANIMAL PHYSIOLOGY
Physiologic principles and concepts. Lecture three hours, lab three hours weekly. Prerequisite: BSCI 30140; CHEM 10060, 10061, 10062 and 10063.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 40432 ENDOCRINOLOGY
Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours. Prerequisite: BSCI 40430.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40433 MAMMALIAN PHYSIOLOGY I
The internal environment, metabolism and energy balance, temperature regulation, nervous system and special senses. Lecture three hours. Prerequisite: BSCI 40430; 9 hours mathematics (MATH) coursework; 20 hours chemistry (CHEM) coursework. Corequisite: BSCI 40444.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 40434 MAMMALIAN PHYSIOLOGY II
Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture three hours. Prerequisite: BSCI 40430; 9 hours mathematics (MATH) coursework or



20 hours chemistry (CHEM) coursework.

Corequisite: BSCI 40445.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 40435 REPRODUCTIVE PHYSIOLOGY OF MAMMALS

Current concepts of reproductive processes based on studies with laboratory and domestic animals and man. Lecture three hours. Prerequisite: BSCI 40430 and 40432.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 40439 ENVIRONMENTAL PHYSIOLOGY

Effects of heat, cold, oxygen, carbon dioxide, pressure, radiant energy, salt and water variations and other environmental factors on organisms. Prerequisite: BSCI 10110 and 10120 and CHEM 10060, 10061, 10062 and 10063.

4.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 40444 MAMMALIAN PHYSIOLOGY LABORATORY I

Laboratory experimentation emphasizing physiological principles covered in BSCI 40433. Corequisite: BSCI 40433.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Biological Sciences

BSCI 40445 MAMMALIAN PHYSIOLOGY LABORATORY II

Laboratory experimentation emphasizing physiological principles covered in BSCI 40434. Lab four hours weekly. Corequisite: BSCI 40434.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Biological Sciences

BSCI 40515 ANIMAL BEHAVIOR

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence.

Prerequisites: BSCI 10110 and 10120 and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 40517 HISTOLOGY

Study of the microscopic and submicroscopic structure of the mammalian body in relation to function. Lecture two hours, lab three hours weekly. Prerequisite: BSCI 10110, 10120, 30140 and 4 hours of biology (BSCI) coursework.

3.000 Credit hours

2.000 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 40519 HORMONES AND BEHAVIOR

Current concepts of hormone and behavior interactions across species. Prerequisites: BSCI 10110 and 10120; and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 40525 WILDLIFE RESOURCES

Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Lecture three hours weekly. Prerequisite: BSCI 10110 and 10120 plus 4 hours of biology (BSCI) coursework.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 40556 VERTEBRATE ZOOLOGY

Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, lab and field three hours weekly. Prerequisite: BSCI 10110 and 10120 plus 4 hours of biology (BSCI) coursework.

4.000 Credit hours

3.000 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 40581 ANIMAL PARASITOLOGY

Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours lab, six hours weekly. Prerequisite: BSCI 10110, 10120 plus 4 hours of biology (BSCI) coursework.

4.000 Credit hours

2.000 Lecture hours

6.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 40600 WRITING IN THE BIOLOGICAL SCIENCES

Writing-intensive course taken with a 3- or 4-credit-hour upper-division biology course. This course may be used to satisfy the writing-intensive course requirement with

approval of major department.

Prerequisites: biology (BSCI) major and junior standing.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

Course Attributes: Writing Intensive Course

BSCI 50020 BIOLOGY OF AGING

Aging in cells, plants and animals, including humans; maintaining human health during aging; current theories of aging. Lecture three hours weekly. Prerequisites: BSCI 20020 and CHEM 10050 and CHEM 10052 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 50142 BIOENERGETICS

Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly. Prerequisite: BSCI 40430. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 50143 EUKARYOTIC CELL BIOLOGY

Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly. Prerequisite: BSCI 40430. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 50146 DEVELOPMENTAL MECHANISMS

Fundamental concepts and paradigms of development as exemplified by major model organisms, with main focus on modern molecular and genetic understanding of developmental mechanisms. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 50150 MOLECULAR MECHANISMS OF DISEASE: CANCER

Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature. Prerequisite: graduate standing.

3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50158 MOLECULAR BIOLOGY

Molecular genetics, DNA and RNA structure, chromosomes DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies. Prerequisite: BSCI 30156 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50159 MOLECULAR BIOLOGY LABORATORY

Experience in research methods for studying cellular and molecular processes in plant and animal systems. Lab meets 6 hours weekly. Prerequisite: BSCI 20140; BSCI 40143 or 40158; CHEM 20481 or 30481; CHEM 30475. Graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 50160 MARINE BIOLOGY

Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50162 SOIL BIOLOGY

The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50163 ORGANIC EVOLUTION

Discussion of the history of evolutionary theory, the evidence of evolution the evolutionary forces and the products of those forces. Prerequisite: BSCI 30156 plus 4 hours of biology. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50164 MOLECULAR SYSTEMATICS AND PHYLOGENETICS

Modern methods used in systematics, DNA sequencing, DNA fingerprinting, phylogenetic analysis and interpretation of

character evolution. Three hours lecture and 3 hours lab weekly. Prerequisite: BSCI 40163; graduate standing.
4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 50165 HISTORY OF BIOLOGY

Historical development of biology from antiquity to the present. Lecture two hours weekly. Prerequisite: BSCI 10181, 10182. Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50170 STREAM BIOLOGY

Identification, biology and ecology of stream-inhabiting organisms. Lecture two hours, laboratory three hours weekly. Prerequisite: BSCI 10181 and 10182. Graduate standing.
3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 50174 IMMUNOLOGY

Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lecture three hours weekly. Prerequisite: BSCI 30171 and CHEM 10060, 10061 and 10062. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES

Topics to be offered will meet specific needs in the biological sciences. Prerequisite: Permission and graduate standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Biological Sciences

BSCI 50195 SPECIAL TOPICS IN BIOLOGY

Special topics in biology. Prerequisite: Special approval of instructor and graduate standing.
1.000 TO 3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
All Sections for this Course
Department: Biological Sciences

BSCI 50196 INDIVIDUAL INVESTIGATION

Individual investigation in biology. Prerequisite: Special approval of instructor and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Biological Sciences

BSCI 50269 BIOLOGY OF THE ALGAE

Morphology, ecology and systematics of freshwater and marine algae. Lecture three hours, laboratory three hours weekly. Prerequisite: BSCI 10181, 10182 plus 10 hours of biology. Graduate standing.
4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 50272 PLANT ANATOMY

Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly. Prerequisite: BSCI 10181, 10182. Graduate standing.
4.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 50275 SYSTEMATIC BOTANY

Biosystematics, angiosperm phylogeny survey of some major families of dicotyledons. Lecture three hours laboratory three hours weekly. Prerequisite: BSCI 10181 10182 or equivalent. Graduate standing.
4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 50277 MORPHOLOGY OF LOWER PLANTS

Nonvascular plants, emphasizing structure reproduction evolution fossil history economic ecological and medical importance. Lecture three hours laboratory three hours weekly. Prerequisite: BSCI 10181 10182 or equivalent. Graduate standing.
4.000 Credit hours
3.000 Lecture hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 50360 ICHTHYOLOGY

Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly. Prerequisite: graduate standing.
4.000 Credit hours



3.000 Lecture hours
3.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 50363 MICROBIAL ECOLOGY

Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems. Prerequisite: BSCI 30171, 30360. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50364 LIMNOLOGY

Field and laboratory study of the principles of aquatic ecology. Recitation one hour, lecture two hours, laboratory three hours weekly. Prerequisite: BSCI 30360t. Graduate standing.
4.000 Credit hours
3.000 Lecture hours
0.500 Lab hours
0.500 Other hours
Level: Graduate
Schedule Types: Laboratory, Lecture, Recitation
Department: Biological Sciences

BSCI 50367 LIMNOLOGICAL TECHNIQUES

Analysis and significance of ecologically important variables and constituents of surface waters. Lecture one hour, laboratory four hours per week. Prerequisite: BSCI 5/70364 or permission. Graduate standing.
2.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 50368 WETLAND ECOLOGY AND MANAGEMENT

Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours lab 3 hours weekly. Prerequisite: Graduate standing.
4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 50369 LAKE MANAGEMENT

Lecture/discussion related to management of lakes and reservoirs, emphasizing eutrophication problems. Current literature and problem solving techniques emphasized. Lecture three hours weekly. Prerequisite: BSCI 5/70364 and graduate standing.
3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50372 POPULATIONS, COMMUNITIES AND ECOSYSTEMS

Integrated investigation of population, community and ecosystem ecology from historical and current perspectives. Community and ecosystem views of nutrient dynamics and biodiversity provide a framework for consideration of food web patterns energy flow and, ecosystem stability and function. Prerequisite: BSCI 30360 and 40163; graduate standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50374 CONSERVATION BIOLOGY

Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life. Prerequisite: BSCI 30360 and graduate standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50376 TROPICAL FIELD BIOLOGY AND CONSERVATION

Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Prerequisite: graduate standing.
5.000 Credit hours
3.000 Lecture hours
6.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 50432 ENDOCRINOLOGY

Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture three hours weekly. Prerequisite: BSCI 40430 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50433 MAMMALIAN PHYSIOLOGY I

The internal environment, metabolism and energy balance, temperature regulation, nervous system and special senses. Lecture three hours. Prerequisite: BSCI 40430; 9 hours mathematics; 20 hours chemistry; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Biological Sciences

BSCI 50434 MAMMALIAN PHYSIOLOGY II

Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture three hours. Prerequisite: BSCI 40430; 9 hours mathematics; 20 hours chemistry; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50435 REPRODUCTIVE PHYSIOLOGY OF MAMMALS

Current concepts of reproductive processes based on studies with laboratory and domestic animals and man. Lecture three hours. Prerequisite: BSCI 40430 and 40432; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50439 ENVIRONMENTAL PHYSIOLOGY

Effects of heat, cold, oxygen, carbon dioxide, pressure, radiant energy salt, and water variations and other environmental factors on organisms. Lecture four hours weekly. Prerequisite: BSCI 10181, 10182; CHEM 10060, 10061 and 10062. Graduate standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50444 MAMMALIAN PHYSIOLOGY LAB I

Laboratory experimentation emphasizing physiological principles covered in BSCI 5/70433. Corequisite: BSCI 5/70433. Graduate standing.
1.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Biological Sciences

BSCI 50445 MAMMALIAN PHYSIOLOGY LAB II

Laboratory experimentation emphasizing physiological principles covered in BSCI 5/70434. Corequisite: BSCI 5/70434. Graduate standing.
1.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Biological Sciences

BSCI 50515 ANIMAL BEHAVIOR

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence. Prerequisite: graduate standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50517 HISTOLOGY

Study of the microscopic and submicroscopic structure of the mammalian body in relation to function. Lecture two hours, laboratory three hours weekly. Prerequisite: BSCI 10181, 10182, plus 4 hours of biology. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 50519 HORMONES AND BEHAVIOR

Current concepts of hormone and behavior interactions across species. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50525 WILDLIFE RESOURCES

Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly. Prerequisite: BSCI 10181 and 10182 plus 4 hours. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 50556 VERTEBRATE ZOOLOGY

Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours, laboratory and field three hours weekly. Prerequisite: BSCI 10181, 10182 plus 4 hours of biology. Graduate standing.
4.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 60080 EXPERIMENTAL METHODS IN BIOLOGY

The development of hypotheses, principles of experimental design and methods of gathering and evaluating data. Prerequisite: Special approval and graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60100 RADIATION SAFETY

A rigorous basis for the detection and safe handling of unsealed radioisotopic material

in research and the effects of radiation on human health is presented. Prerequisite: Special approval and graduate standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60103 BIOLOGICAL STATISTICS

Principles of experimental design and statistical analysis, and how to choose and interpret statistical tests using biological data sets. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY

Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students. Prerequisite: Graduate standing. Corequisite: BSCI 50143
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60191 SEMINAR IN BIOLOGY

Departmental seminar required of all graduate students. Prerequisite: Graduate standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biological Sciences

BSCI 60194 COLLEGE TEACHING IN BIOLOGY

Training and experience in college teaching of biology. Maximum of 2 hours applicable toward degree. Repeated registration permitted. Required in all degree programs. Prerequisite: Special approval of instructor and graduate standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60198 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned may be applied toward degree requirements if department approves. Repeated registration is permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Biological Sciences

BSCI 60199 THESIS I

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single

semester distributed over several semesters if desired. Prerequisite: Special approval and graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Biological Sciences

BSCI 60220 BIOINFORMATICS

Theory, methods and computational approaches used to interpret large volumes of biosciences information; reviews of major data repositories. An interdisciplinary project is required. Prerequisite: BSCI 50143; graduate standing.
4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 60265 PLANT METABOLISM

An advanced study of absorption, transpiration, translocation, mineral nutrition, photosynthesis, respiration, nitrogen, metabolism and other biochemical processes in plant cells. Lecture three hours per week. Prerequisite: BSCI 30267 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60266 PLANT GROWTH AND DEVELOPMENT

An advanced study of the phytohormones, light, temperature, gravity, etc. and, their effect on dormancy, germination, tropisms, cellular expansion, flowering and senescence. Lecture three hours per week. Prerequisite: BSCI 30267 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60291 SEMINAR IN BOTANY

Seminar on botanical topics. May be repeated for credit. Credits earned may be applied toward degree if department approves. Prerequisite: Special approval of instructor and graduate standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biological Sciences

BSCI 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: BSCI 60199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Biological Sciences



BSCI 60365 EXPERIMENTAL LIMNOLOGY

Methods and selected literature in experimental aquatic ecology will be reviewed. An experiment will be designed and carried out. Lecture-recitation two hours, laboratory three hours weekly. Prerequisite: BSCI 5/70364. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60367 DYNAMICS OF AQUATIC COMMUNITIES

Interpretation and simulation of the structure and dynamics of algal communities within lakes and streams. Discussion of the structure and dynamic interrelationships of the components of aquatic ecosystems. Lecture two hours, laboratory three hours weekly. Prerequisite: BSCI 4/5/70269. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60370 ECOLOGICAL GENETICS

Dynamics of genes in diploid populations and consequent interactions with and effects on components of the ecosystem, with examples. Prerequisite: BSCI 30156 30360, 40162. Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60371 EVOLUTIONARY ECOLOGY

An application of the theory of natural selection to the evolution of population and community phenomena. Prerequisite: BSCI 30360. Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60391 SEMINAR IN ECOLOGY

Seminar on topics in animal and plant ecology. May be repeated for credit. Credits earned may be applied to degree if department approves. Prerequisite: Special approval of instructor and graduate standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biological Sciences

BSCI 60431 NEUROENDOCRINOLOGY

Role of the central nervous system in the regulation of hormonal and vegetative functions; structure function relationships between brain and pituitary with modern views of neuroendocrine regulation. Methods for study of neuroendocrine

relationships is discussed. Prerequisite: graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60438 COMPARATIVE PHYSIOLOGY

Comparative physiology of regulatory mechanisms (biochemistry, nervous, hormonal, etc.) such areas as neurophysiology, sensory adaptations, biological rhythms, circulatory systems, movement and locomotion, buoyancy. Prerequisite: BSCI 10181, 10182; CHEM 10060, 10061, 10062, 10063. Graduate standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60440 CELLULAR AND MOLECULAR SIGNALING

The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication. Prerequisite: BSCI 4/5/70143; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60446 ADVANCED HUMAN PHYSIOLOGY

Physiological mechanisms of human health and disease with an emphasis on integrative physiology. Lecture 3 hours weekly. Prerequisite: Special approval from department and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60461 NEUROCHEMISTRY

Basic biochemistry of the mammalian nervous system, including myelin structure and metabolism, stimulus-secretion coupling, neurotransmitter and eicosanoid metabolism, energy utilization and the biochemistry of nervous disorders. Prerequisite: CHEM 5/70247. Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR

Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor

function and regulate behavior. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60491 SEMINAR IN PHYSIOLOGY

May be repeated for credit. Credits may be applied toward degree if department approves. Prerequisite: Special approval of instructor and graduate standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biological Sciences

BSCI 60495 SPECIAL TOPICS IN PHYSIOLOGY

Study of problems of current importance. Content dependent on student requirements and on developments in field. Prerequisite: Special approval of instructor and graduate standing.
2.000 OR 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 60580 ADVANCED ENTOMOLOGY

Advanced studies in taxonomy, ecology, biology, physiology, morphology and control of insects. Prerequisite: BSCI 30580 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70100 RADIATION SAFETY

A rigorous basis for the detection and safe handling of unsealed radioisotopic material in research and the effects of radiation on human health is presented. Prerequisite: Special approval and doctoral standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70103 BIOLOGICAL STATISTICS

Principles of experimental design and statistical analysis, and how to choose and interpret statistical tests using biological data sets. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70142 BIOENERGETICS

Lecture and discussion of respiration and photosynthesis, their origin development and control in living systems. Concepts are introduced from fundamental principles. Lecture three hours weekly. Prerequisite: BSCI 40430. Doctoral standing.
3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70143 EUKARYOTIC CELL BIOLOGY

Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture three hours weekly. Prerequisite: BSCI 40430. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70144 SELECTED READINGS IN EUKARYOTIC CELL BIOLOGY

Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students. Prerequisite: Doctoral standing. Corequisite: BSCI 70143.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70146 DEVELOPMENTAL MECHANISMS

Fundamental concepts and paradigms of development as exemplified by major model organisms, with main focus on modern molecular and genetic understanding of developmental mechanisms. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70150 MOLECULAR MECHANISMS OF DISEASE: CANCER

Explores the current understanding of molecular and cellular mechanisms of disease processes, including new technologies and modern strategies in the forefront of future biomedical research. Emphasis on a review of primary literature. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70158 MOLECULAR BIOLOGY

Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies. Prerequisite: BSCI 30156 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70159 MOLECULAR BIOLOGY LABORATORY

Experience in research methods for studying cellular and molecular processes in plant and animal systems. Lab meets 6 hours weekly. Prerequisite: BSCI 20140; BSCI 40143 or 40158; CHEM 20481 or 30481; CHEM 30475. Doctoral standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 70160 MARINE BIOLOGY

Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours weekly. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70162 SOIL BIOLOGY

The ecology and physiology of organisms that live in soil, including microbes, plants and animals. The physical and chemical aspects of soil are introduced to understand how organisms in soils impact nutrient cycles and ecosystem development. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70163 ORGANIC EVOLUTION

Discussion of the history of evolutionary theory, the evidence of evolution, the evolutionary forces and the products of those forces. Prerequisite: BSCI 30156 plus 4 hours of biology. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70164 MOLECULAR SYSTEMATICS AND PHYLOGENETICS

Modern methods used in systematics, DNA sequencing, DNA fingerprinting, phylogenetic analysis and interpretation of character evolution. Three hours lecture and 3 hours lab weekly. Prerequisite: BSCI 40163; doctoral standing.
4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 70165 HISTORY OF BIOLOGY

Historical development of biology from antiquity to the present. Lecture two hours weekly. Prerequisite: BSCI 10181, 10182. Doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Biological Sciences

BSCI 70170 STREAM BIOLOGY

Identification, biology and ecology of stream-inhabiting organisms. Lecture two , laboratory three hours weekly. Prerequisite: BSCI 10181 and 10182. Doctoral standing.
3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 70174 IMMUNOLOGY

Survey of the mammalian host responses to self and non-self with emphasis on the cellular and molecular mechanisms by which innate and acquired immunity result. Experimental design and data analyses are related to current methodologies used to study immunology. Lecture three hours weekly. Prerequisite: BSCI 30171 and CHEM 10060, 10061 and 10062. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70191 SEMINAR IN BIOLOGY

Departmental seminar required of all graduate students. Prerequisite: Doctoral standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biological Sciences

BSCI 70193 VARIABLE TITLE WORKSHOP IN BIOLOGICAL SCIENCES

Topics to be offered will meet specific needs in the biological sciences. Prerequisite: Special approval and doctoral standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Biological Sciences

BSCI 70194 COLLEGE TEACHING IN BIOLOGY

Training and experience in college teaching of biology. Maximum of 2 hours applicable toward degree. Required in all degree programs. Prerequisite: Special approval of instructor and doctoral standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70195 SPECIAL TOPICS IN BIOLOGY

Prerequisite: Special approval of instructor and doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate



Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 70196 INDIVIDUAL INVESTIGATION

Prerequisite: Special approval of instructor and doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Biological Sciences

BSCI 70265 PLANT METABOLISM

An advanced study of absorption, transpiration, translocation, mineral nutrition, photosynthesis, respiration, nitrogen, metabolism and other biochemical processes in plant cells. Lecture three hours per week. Prerequisite: BSCI 30267 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70266 PLANT GROWTH AND DEVELOPMENT

An advanced study of the phytohormones, light, temperature, gravity, etc. and their effect on dormancy, germination, tropisms, cellular expansion, flowering and senescence. Lecture three hours per week. Prerequisite: BSCI 30267 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70269 BIOLOGY OF THE ALGAE

Morphology, ecology and systematics of freshwater and marine algae. Lecture three hours, laboratory three hours weekly. Prerequisite: BSCI 10181, 10182, plus 10 hours of biology. Doctoral standing.
4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 70272 PLANT ANATOMY

Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Lecture two hours, laboratory six hours weekly. Prerequisite: BSCI 10181, 10182. Doctoral standing.
4.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 70275 SYSTEMATIC BOTANY

Biosystematics, angiosperm phylogeny, survey of some major families of dicotyledons. Lecture three hours,

laboratory three hours weekly. Prerequisite: BSCI 10181, 10182. Doctoral standing.
4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 70277 MORPHOLOGY OF LOWER PLANTS

Nonvascular plants, emphasizing structure, reproduction, evolution, fossil history, economic, ecological and medical importance. Lecture three hours, laboratory three hours weekly. Prerequisite: BSCI 10181, 10182. Doctoral standing.
4.000 Credit hours
3.000 Lecture hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 70291 SEMINAR IN BOTANY

Seminar on botanical topics. May be repeated for credit. Credits earned may be applied toward degree if department approves. Prerequisite: Permission of instructor and doctoral standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biological Sciences

BSCI 70360 ICHTHYOLOGY

Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly. Prerequisite: doctoral standing.
4.000 Credit hours
3.000 Lecture hours
3.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 70363 MICROBIAL ECOLOGY

Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems. Prerequisite: BSCI 30171, 30360. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70364 LIMNOLOGY

Field and laboratory study of the principles of aquatic ecology. Recitation one hour, lecture two hours, laboratory three hours weekly. Prerequisite: BSCI 30360. Doctoral standing.
4.000 Credit hours
3.000 Lecture hours
0.500 Lab hours
0.500 Other hours
Level: Graduate
Schedule Types: Laboratory, Lecture, Recitation
Department: Biological Sciences

BSCI 70367 LIMNOLOGICAL TECHNIQUES

Analysis and significance of ecologically important variables and constituents of surface waters. Lecture one hour laboratory four hours per week. Prerequisite: BSCI 5/70364. Doctoral standing.
2.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 70368 WETLAND ECOLOGY AND MANAGEMENT

Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, lab 3 hours weekly. Prerequisite: Doctoral standing.
4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Biological Sciences

BSCI 70369 LAKE MANAGEMENT

Lecture/discussion related to management of lakes and reservoirs, emphasizing eutrophication problems. Current literature and problem solving techniques emphasized. Lecture three hours weekly. Prerequisite: BSCI 5/70364 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70370 ECOLOGICAL GENETICS

Dynamics of genes in diploid populations and consequent interactions with and effects on components of the ecosystem, with examples. Prerequisite: BSCI 30156, 30360, 40162. Doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70371 EVOLUTIONARY ECOLOGY

An application of the theory of natural selection to the evolution of population and community phenomena. Prerequisite: BSCI 30360. Doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70372 POPULATIONS, COMMUNITIES AND ECOSYSTEMS

Integrated investigation of population, community, and ecosystem ecology from historical and current perspectives. Community and ecosystem views of



nutrient dynamics and biodiversity provide a framework for consideration of food web patterns, energy flow, and ecosystem stability and function. Prerequisite: BSCI 30360 and 40163; doctoral standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70374 CONSERVATION BIOLOGY

Provides a critical analysis of the factors that threaten biological diversity in the biosphere and the consequences on biological processes and quality of life. Prerequisite: BSCI 30360 and doctoral standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70376 TROPICAL FIELD BIOLOGY AND CONSERVATION

Introduction to major issues in tropical ecology and conservation including the threats to the biological diversity of tropical ecosystems resulting from human activities. Students learn how to apply modern field-observation techniques to generate and test problem-solving hypotheses. Prerequisite: doctoral standing.
5.000 Credit hours
3.000 Lecture hours
6.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

BSCI 70391 SEMINAR IN ECOLOGY

Seminar on topics in animal and plant ecology. Credits earned may be applied to degree if department approves. Prerequisite: Special approval of instructor and doctoral standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biological Sciences

BSCI 70431 NEUROENDOCRINOLOGY

Role of the central nervous system in the regulation of hormonal and vegetative functions; structure function relationships between brain and pituitary with modern views of neuroendocrine regulation. Methods for study of neuroendocrine relationships is discussed. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70432 ENDOCRINOLOGY

Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture

three hours weekly. Prerequisite: BSCI 40430 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70433 MAMMALIAN PHYSIOLOGY I

The internal environment, metabolism and energy balance, temperature regulation, nervous system and special senses. Lecture three hours. Prerequisite: BSCI 40430; 9 hours mathematics; 20 hours chemistry; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70434 MAMMALIAN PHYSIOLOGY II

Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture three hours. Prerequisite: BSCI 40430; 9 hours mathematics; 20 hours chemistry; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70435 REPRODUCTIVE PHYSIOLOGY OF MAMMALS

Current concepts of reproductive processes based on studies with laboratory and domestic animals and man. Lecture three hours. Prerequisite: BSCI 40430 and 40432. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70438 COMPARATIVE PHYSIOLOGY

Comparative physiology of regulatory mechanisms (biochemistry, nervous, hormonal, etc.); such areas as neurophysiology, sensory adaptations, biological rhythms, circulatory systems, movement and locomotion, buoyancy. Prerequisite: BSCI 10181, 10182; CHEM 10060, 10061, 10062, 10063. Doctoral standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70439 ENVIRONMENTAL PHYSIOLOGY

Effects of heat, cold, oxygen, carbon dioxide, pressure, radiant energy, salt, and water variations and other environmental factors on organisms. Lecture four hours weekly. Prerequisite: BSCI 10181, 10182; CHEM 10060, 10061 and 10062. Doctoral standing.
4.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70440 CELLULAR AND MOLECULAR SIGNALING

The relevant and current topics associated with cellular signaling is covered. Topics include receptor pharmacology, classes and regulation, transcription factors, cell cycle signaling and cell-cell communication. Prerequisite: BSCI 4/5/70143 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70444 MAMMALIAN PHYSIOLOGY LAB I

Laboratory experimentation emphasizing physiological principles covered in BSCI 5/70433. Corequisite: BSCI 5/70433. Doctoral standing.
1.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Biological Sciences

BSCI 70445 MAMMALIAN PHYSIOLOGY LAB II

Laboratory experimentation emphasizing physiological principles covered in BSCI 5/70434. Prerequisite: doctoral standing. Corequisite: BSCI 50434 or 70434.
1.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Biological Sciences

BSCI 70461 NEUROCHEMISTRY

Basic biochemistry of the mammalian nervous system, including myelin structure and metabolism, stimulus-secretion coupling, neurotransmitter and eicosanoid metabolism, energy utilization and the biochemistry of nervous disorders. Prerequisite: CHEM 5/70247. Doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Biological Sciences

BSCI 70491 SEMINAR IN PHYSIOLOGY

Credits may be applied toward degree if the department approves. Prerequisite: Special approval of instructor and doctoral standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Biological Sciences

BSCI 70495 SPECIAL TOPICS IN PHYSIOLOGY

Study of problems of current importance. Content dependent on student requirements and on developments in field.



Prerequisite: Special approval of instructor and doctoral standing.

2.000 OR 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 70515 ANIMAL BEHAVIOR

Explores the evolution of various animal behaviors, the functions they might serve, and the interplay among the social, ecological and physiological mechanisms that regulate their occurrence. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 70517 HISTOLOGY

Study of the microscopic and submicroscopic structure of the mammalian body in relation to function. Lecture two hours laboratory three hours weekly. Prerequisite: BSCI 10181, 10182 plus 4 hours of biology. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

0.000 Lab hours

Level: Graduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 70519 HORMONES AND BEHAVIOR

Current concepts of hormone and behavior interactions across species. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 70525 WILDLIFE RESOURCES

Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic economic and environmental values are discussed. Lecture three hours weekly. Prerequisite: BSCI 10181 and 10182 plus 4 hours. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 70556 VERTEBRATE ZOOLOGY

Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture three hours laboratory and field three hours weekly. Prerequisite: BSCI 10181, 10182 plus 4 hours of biology. Doctoral standing.

4.000 Credit hours

3.000 Lecture hours

0.000 Lab hours

Level: Graduate

Schedule Types: Laboratory, Lecture

Department: Biological Sciences

BSCI 70580 ADVANCED ENTOMOLOGY

Advanced studies in taxonomy, ecology, biology, physiology, morphology and control of insects. Prerequisite: BSCI 30580 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 80150 BIOLOGICAL INSTRUMENTATION

Biological instrumentation and techniques. By arrangement. Prerequisite: Special approval of instructor and doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 80198 RESEARCH

Research or individual investigation for doctoral students who have not yet passed candidacy examination. Prerequisite: Doctoral standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Biological Sciences

BSCI 80199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Special approval and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Biological Sciences

BSCI 80240 ADVANCED TOPICS IN BOTANY

Lectures and/or laboratories in advanced areas of botany. By arrangement. Prerequisite: Special approval of instructor and doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 80241 ADVANCED TOPICS IN BOTANY

Lectures and/or laboratories in advanced areas of botany. By arrangement. Prerequisite: Special approval of instructor and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 80299 DISSERTATION II

Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree

requirements are met. Prerequisite: BSCI 80199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Biological Sciences

BSCI 80310 ADVANCED TOPICS IN ECOLOGY

Lectures and/or laboratories in advanced areas in ecology. By arrangement. Prerequisite: Special approval of instructor and doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 80311 ADVANCED TOPICS IN ECOLOGY

Lectures and/or laboratories in advanced areas in ecology. By arrangement. Prerequisite: Special approval of instructor and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 80365 EXPERIMENTAL LIMNOLOGY

Methods and selected literature in experimental aquatic ecology will be reviewed. An experiment will be designed and carried out. Lecture-recitation two hours, laboratory three hours weekly. Prerequisite: BSCI 5/70364. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 80367 DYNAMICS OF AQUATIC COMMUNITIES

Interpretation and simulation of the structure and dynamics of algal communities within lakes and streams. Discussion of the structure and dynamic interrelationships of the components of aquatic ecosystems. Lecture two hours, laboratory three hours weekly. Prerequisite: BSCI 4/5/70269. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 80430 ADVANCED TOPICS IN PHYSIOLOGY

Analysis and solution of problems in contemporary physiology. By arrangement. Prerequisite: Special approval of instructor and doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

**BSCI 80431 ADVANCED TOPICS IN PHYSIOLOGY**

Analysis and solution of problems in contemporary physiology. By arrangement. Prerequisite: Special approval of instructor and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

BSCI 80462 NEUROBIOLOGY: SYSTEMS AND BEHAVIOR

Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Biological Sciences

Biostatistics (BST)**BST 50196 INDIVIDUAL INVESTIGATION IN BIOSTATISTICS**

(repeatable for maximum 6 credits)

Individual graduate investigation or research in areas related to biostatistics.

Prerequisite: graduate standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Public Health

BST 52019 BIOSTATISTICS IN PUBLIC HEALTH

Provides students with an understanding of basic statistical methods in public health research, as well as the skills to perform and interpret basic statistical procedures.

Students learn how to use statistical analysis software to analyze real data from public health-related studies. They then learn how to interpret the analysis and present the results to public health professionals and educated lay audiences.

Includes lab component which enhances student awareness and informed usage of SAS for public health analysis. Students learn how to input, read, store, export, and modify data in SAS and be able to use common SAS procedures to analyze public health data and conduct independent SAS programming. Prerequisite: graduate standing.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Graduate

Schedule Types: Laboratory, Lecture

Department: Public Health

BST 63012 SURVIVAL ANALYSIS IN PUBLIC HEALTH

Introduction in survival analysis for graduate students in public health. Covers survival functions, hazard rates, types of

censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered. Prerequisites: BST 52019 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

BST 63013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH

Introduces students to experimental research methods, in public health settings.

First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study.

Students are expected to develop two research proposals, first using quasi-experimental then an experimental design and develop a statistical analysis plan for each study. Prerequisites: BST 52019 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

BST 63014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA

Focuses on developing student proficiency in building and evaluating various regression models for public health studies.

Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models. Prerequisite: BST 52019 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

BST 63015 CATEGORICAL DATA ANALYSIS OF PUBLIC HEALTH DATA

Provides an applied introduction to the most important methods for analyzing categorical data in public health. Topics covered

include contingency tables, logistic regression, generalized linear models, modeling matched pairs and clustered responses. Prerequisites: BST 52019 and EPI 52017; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

BST 73010 QUALITATIVE METHODS FOR PUBLIC HEALTH RESEARCH

Surveys major methods of qualitative research and explores issues and applications in public health, including

integrating qualitative and quantitative methods. Approaches examined include:

Ethnography; grounded theory; phenomenology; focus groups; narrative analysis; and Photo voice. Community-Based Participatory Research is explored as an approach for conducting qualitative research in public health. Prerequisite:

doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

BST 73011 MULTIVARIATE ANALYSIS IN PUBLIC HEALTH

Multivariate statistical methods are designed to evaluate more than one variable at a time. An application-oriented introduction to essential multivariate statistical methods used in public health.

Topics covered include matrix theory, data screening and preliminary analyses, multivariate normal distributions, multivariate versions of the general linear model (MANOVA, multivariate multiple regression, MANCOVA), discrimination and classification, canonical correlation analysis, and methods of analyzing covariance and correlation structures (principal components and factor analysis). Also introduces and explores methods of handling missing data. Prerequisite: BST 52019 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

BST 83012 SURVIVAL ANALYSIS IN PUBLIC HEALTH

Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered. Prerequisite: BST 52019 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

BST 83013 EXPERIMENTAL DESIGNS IN PUBLIC HEALTH RESEARCH

Designed to introduce students to experimental research methods, in public health settings. First introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study.

Students are expected to develop two research proposals, first using quasi-experimental then an experimental design and develop a statistical analysis plan for each study. Prerequisite: BST 52019 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Public Health

BST 83014 APPLIED REGRESSION ANALYSIS OF PUBLIC HEALTH DATA

Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models. Prerequisite: BST 52019 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

Biotechnology (BTEC)

BTEC 10210 INTRODUCTION TO BIOTECHNOLOGY

Basic principles and applications of modern biotechnology, including recombinant DNA technology, microbial technology, fermentation, genetic engineering, plant and animal tissue culture and medical biotechnology. Lecture three hours weekly. Prerequisite: BSCI 10120.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Arts and Sciences
Course Attributes: Joint Program/ Consortia Agreement

BTEC 40191 SEMINAR:RECENT DEVELOPMENTS IN BIOTECHNOLOGY

Recent developments in biotechnology explored through the presentation and discussion of research articles and reviews in the biotechnology literature. Prerequisite: BTEC 10210; BSCI 30140, 30171, 30156; CHEM 30284.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Arts and Sciences
Course Attributes: Joint Program/ Consortia Agreement

BTEC 40192 INTERNSHIP IN BIOTECHNOLOGY

Work experience in a biotechnology laboratory. Registration requires approval of program director and is dependent on availability of internship sites. Written report of activities required. Prerequisite: Biotechnology (BTEC) major.
2.000 TO 9.000 Credit hours
2.000 TO 9.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Arts and Sciences
Course Attributes: Joint Program/ Consortia Agreement

BTEC 40196 INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY

Research experience in biotechnology. Registration requires approval of program director and research director. Written report required. Prerequisite: Biotechnology (BTEC) major.
2.000 TO 9.000 Credit hours
2.000 TO 9.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Arts and Sciences
Course Attributes: Joint Program/ Consortia Agreement

BTEC 40210 CASE STUDIES IN BIOTECHNOLOGY

Case studies used to explore biotechnology practice and the application of various technologies in industry and medicine. Emphasis placed on developing problem solving, information gathering, inductive reasoning and technical communication skills. Prerequisite: BTEC 10210; BSCI 30140, 30171, 30156, 40158; CHEM 30284, 40248.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Arts and Sciences
Course Attributes: Joint Program/ Consortia Agreement

BTEC 40220 BIOINFORMATICS

Analysis of biological databases including nucleic acid and protein sequence searching, multiple sequence alignments, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis. Prerequisite: BSCI 30140, 30171, 30156, 40158; CHEM 30284, 40248.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Arts and Sciences
Course Attributes: Joint Program/ Consortia Agreement

Business Administration (BUS)

BUS 10123 EXPLORING BUSINESS

(Equivalent to BMRT 11000) An introduction to the basic areas of business with an integrated perspective on how the various areas work together. Technological competencies and communicative skills will be developed. Team building opportunities will be announced. This course is open to any major. This course should be taken sometime during student's first 30 semester hours. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Business Administration

BUS 10195 SPECIAL TOPICS

Special topics course that will be offered on a semester basis with different topics and different faculty. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Business Administration

BUS 20192 INTERNSHIP IN BUSINESS

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Business Administration

BUS 20195 SPECIAL TOPICS

Special topics course that will be offered on a semester basis with different topics and different faculty. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Division Undeclared Division
Department: Business Administration

BUS 20293 VARIABLE TITLE WORKSHOP IN BUSINESS

Variable topics. Prerequisite: None.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Business Administration

BUS 30195 SPECIAL TOPICS

Special topics course that will be offered on a semester basis with different topics and different faculty. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Business Administration

BUS 30234 INTERNATIONAL BUSINESS

Learn how international business is affected by the forces of globalization: opportunities, threats and challenges that ensue from hyper competition, and the institutional checks and balances necessary to prevent complexity deteriorating into chaos. Prerequisite: ACCT 23020, ECON 22060, ECON 22061, FIN 36053 and MKTG 25010.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Business Administration

BUS 40192 INTERNSHIP IN BUSINESS

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Other hours



Level: Undergraduate
Schedule Types: Practicum
Department: Business Administration

BUS 40195 SPECIAL TOPICS

Special topics course that will be offered on a semester basis with different topics and different faculty. Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Business Administration

College of the Arts (CA)

CA 10195 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS

This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The Departments concerned clear the proposed course with the Curriculum Committee of the college. Prerequisite: none.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: College of the Arts

CA 20000 PERFORMING ARTS I

An inter-arts course introducing expressive materials, representative literature and historical contexts of major dance, music and theatre styles with appropriate reference to other art forms. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: College of the Arts

CA 20001 PERFORMING ARTS II

Continuation of Performing Arts I. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: College of the Arts

CA 20295 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS

This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The Departments concerned clear the proposed course with the Curriculum

Committee of the college. Prerequisite: none.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: College of the Arts

CA 30395 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS

This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The Departments concerned clear the proposed course with the Curriculum Committee of the college. Prerequisite: none.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: College of the Arts

CA 40493 VARIABLE TITLE WORKSHOP IN THE COLLEGE OF THE ARTS

Workshop setting dealing with topics within the College of the Arts. Prerequisite: none.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: College of the Arts

CA 40495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS

This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The Departments concerned clear the proposed course with the Curriculum Committee of the college. Prerequisite: none.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: College of the Arts

CA 41495 SPECIAL TOPICS IN THE COLLEGE OF THE ARTS

This program, administered by the dean, is intended to encourage interdisciplinary study, to cover areas not treated adequately in the standard course, and to make available promptly the new and significant experience of the faculty. Requests for the scheduling of these courses are made by faculty members or students to the sponsoring school or to the dean. The school concerned clears the proposed course with the College Curriculum Committee. Prerequisite: none.

1.000 TO 5.000 Credit hours
1.000 TO 5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: College of the Arts

Center for Applied Conflict Management (CACM)

CACM 11001 INTRODUCTION TO CONFLICT MANAGEMENT

Introduces key elements of conflict management theory and practice such as communication, collaborative problem solving, negotiation, mediation and nonviolent conflict intervention. Includes conflict communication skills development. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Center for Applied Conflict Management

Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, Transfer Module-Social Sciences

CACM 21002 GENDER, POWER AND CONFLICT

Course examines power imbalances in interpersonal relationships and the violence that often results, and considers some of the ways these power imbalances are developed focusing particularly on gender. Prerequisite: CACM 11001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Center for Applied Conflict Management

CACM 21010 CROSS-CULTURAL CONFLICT MANAGEMENT

This course examines cultural and gender-based components of conflict in diverse settings with special emphasis on conflict escalation and de-escalation, power disparity and conflict resolution techniques. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Center for Applied Conflict Management

Course Attributes: Diversity Course-Global

CACM 22020 INTERNATIONAL CONFLICT RESOLUTION

Provides a wide view of the main theories on causes, expressions and consequences of international conflicts, and explores differing mechanisms for their prevention, resolution and management. Students are familiarized with how and why international conflicts appear and progress and learn recent developments on early warning methods, negotiation techniques and peacekeeping and peace building practices.



Conflicts covered include international and civil wars as well as topics such as international terrorism. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management
Course Attributes: Diversity Course-Global

CACM 25095 SPECIAL TOPICS

An in-depth examination of conflict management applications in various professional areas. This course is of particular value to students who plan to work in a specific field and require knowledge of conflict management skills. Prerequisite: CACM 11001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management

CACM 31003 NONVIOLENCE:THEORY AND PRACTICE

Examines the nature of violence and nonviolence on various structural levels and in different contexts. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management

CACM 31010 CONFLICT THEORY

Explores theoretical models of conflict and addresses cultural dimensions of conflict, gender and conflict and the functions of power in conflict. Prerequisite: CACM 11001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management

CACM 32020 STRATEGIC PLANNING

Course provides training in strategic planning, including assessing the current environment, developing goals and objectives and establishing a time line for action. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management

CACM 33030 CONFLICT IN THE WORKPLACE

Explores the causes, impact and dynamics of conflict in the workplace. Issues explored include personality conflict, incivility, ethics, teams, management style, diversity, legal issues, alternative dispute resolution, union environments and workplace violence. Prerequisite: CACM 11001.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management

CACM 34040 NEGOTIATION

Explores the dynamics of negotiation occurring in different contexts from both a theoretical and practical perspective. Prerequisite: CACM 11001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management

CACM 35050 ENVIRONMENTAL CONFLICT RESOLUTION

Examines alternative dispute resolution principles applicable to public sector disputes, especially environmental and land use disputes. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management

CACM 35092 INTERNSHIP IN CONFLICT MANAGEMENT

Students work as interns with an organization, group or business utilizing and enhancing their skills in conflict management. Prerequisites: junior standing and two upper-division CACM courses.
3.000 TO 12.000 Credit hours
3.000 TO 12.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Center for Applied Conflict Management

CACM 35095 SPECIAL TOPICS IN CONFLICT MANAGEMENT

Designed to provide an in-depth examination of topics and issues of interest to faculty and students. Specific topics are announced in the Schedule of Classes and on the Center for Applied Conflict Management's web site. Repeated registration is permissible. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management

CACM 36096 INDIVIDUAL INVESTIGATION IN CONFLICT MANAGEMENT

Individualized program of study and literature review in area of particular interest to the student. Prerequisites: junior standing and two upper-division CACM courses.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation

Department: Center for Applied Conflict Management

CACM 38080 MEDIATION:THEORY AND TRAINING

Examines the historical development of mediation. Teaches mediation skills necessary to become a practicing mediator. Prerequisite: CACM 11001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management

CACM 41010 RECONCILIATION VERSUS REVENGE:TRANSITIONAL JUSTICE

"Transitional justice" refers to civil and political processes used to move from violence and tyranny to peace and democracy. War crimes tribunals, truth and reconciliation commissions, apologies, forgiveness, reparations and memorials will be examined. Prerequisite: CACM 22020 and 1 upper-division CACM course; and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management
Course Attributes: Diversity Course-Global, Writing Intensive Course

CACM 42020 QUALITATIVE RESEARCH IN CONFLICT MANAGEMENT

An overview of qualitative research methods used to gather and analyze data in conflict management. Gives students experience in writing a major research paper. Prerequisites: CACM 11001 and 2 upper-division CACM courses; and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Center for Applied Conflict Management
Course Attributes: Writing Intensive Course

CACM 45093 VARIABLE TOPIC WORKSHOP IN CONFLICT MANAGEMENT

Variable topic offered as need arises. Specific topics will be announced in the schedule of classes. Prerequisite: special approval.
1.000 TO 6.000 Credit hours
1.000 TO 6.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Center for Applied Conflict Management

CACM 49091 VARIABLE TITLE SEMINAR IN CONFLICT MANAGEMENT

Seminar devoted to detailed study of various topics in the field of conflict management. Specific topics are announced in Schedule of Classes and on the Center for Applied Conflict



Management's website. Repeated registration permitted. Prerequisite: senior standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Center for Applied Conflict Management

Computer Design & Animation Engineering Technology (CADT)

CADT 22000 ADVANCED CAD

The use of advanced concepts and techniques of computer-aided drafting and design and related productivity improvement tools for two- and three-dimensional drawings. Prerequisite: IERT 12005.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

CADT 22001 CAD:ARCHITECTURE

Comprehensive study of the use of a popular computer-aided drafting package for architectural design, including systems management methods and project planning concept. Prerequisite: IERT 12005.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

CADT 22002 CAD:CIVIL APPLICATIONS

A course on the use of computer-aided drafting and design for civil engineering applications. Prerequisite: None.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

CADT 22003 SOLID MODELING

A course in solid modeling using computers. Modeling techniques using regional and solid modular for two dimensional regions and three dimensional solids. Prerequisite: CADT 22000.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

CADT 22004 COMPUTER ANIMATION AND GAMING

3D modeling and computerized techniques. Introduction to the basic concepts, terminology and techniques of 3D modeling, lighting, shading, imaging and animation. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

CADT 22005 MULTIMEDIA AND GAME DESIGN

Covers the creation of interactive multimedia presentations. Development of flowcharts, roughs and interactive navigation systems. Integration of images, animation, video, sound and custom code for the creation of an interactive multimedia presentation. Prerequisite: none.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

College of Communication and Information (CCI)

CCI 10095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION

Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework. Prerequisite: none.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: College of Communication and Information

CCI 40095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION

Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework. Prerequisite: none.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: College of Communication and Information

CCI 50095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION

Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework. Prerequisite: graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: College of Communication and Information

CCI 60001 INTRODUCTION TO RESEARCH IN COMMUNICATION AND INFORMATION

Overview of the process of engaging in empirical research in communication and information: defining the problem, conceptualizing key components, choosing a research method, analyzing results and reporting conclusions. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: College of Communication and Information

CCI 60095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION

Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework. Prerequisite: graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: College of Communication and Information

CCI 80000 FOUNDATIONS OF COMMUNICATION AND INFORMATION INQUIRY

Introduction to epistemological foundations of the CCI disciplines, theory construction and academic writing for the CCI PhD. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: College of Communication and Information

CCI 80001 INTRODUCTION TO RESEARCH IN COMMUNICATION AND INFORMATION

Overview of the process of engaging in empirical research in communication and information: defining the problem, conceptualizing key components, choosing a research method, analyzing results and reporting conclusions. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: College of Communication and Information

CCI 80094 COLLEGE TEACHING IN COMMUNICATION AND INFORMATION

Training and investigation of best practices for collegiate instruction: course development, classroom performance, evaluation and reflection, introduction to instructional research. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: College of Communication and Information

CCI 80095 SPECIAL TOPICS IN COMMUNICATION AND INFORMATION

Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework. Prerequisite: doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: College of Communication and Information

CCI 80096 INDIVIDUAL INVESTIGATION IN COMMUNICATION AND INFORMATION

(Repeatable with the approval of the student's advisor for a maximum of 6 credit hours) Independent study of area or problem to be selected in consultation with doctoral faculty. Prerequisite: doctoral standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: College of Communication and Information

CCI 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: College of Communication and Information

CCI 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

Prerequisites: CCI 80199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: College of Communication and Information

CCI 85098 RESEARCH IN COMMUNICATION AND INFORMATION

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if doctoral supervisory committee and CCI College Doctoral Program Policy Committee approve. Prerequisite: doctoral standing.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: College of Communication and Information

Counseling and Human Development Services (CHDS)

CHDS 10001 INTRODUCTION TO A CAREER IN TEACHING

Students considering teaching as a career will explore all aspects of an educator's role, will evaluate career and personal

development as related to the education profession, and will participate in observation experience. This course is a pre professional experience coordinated by ACHVE department. Prerequisite: None.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 10002 INTRODUCTION TO CAREERS IN EDUCATION, HEALTH AND HUMAN SERVICES

Explores roles of educators, health and human service providers in community and school settings. Introduction to work of professionals in such areas as youth organizations; recreation, mental health and child and family services; museums and parks; and health and allied health agencies. Assessment of career interests is conducted. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 20092 FIELD EXPERIENCE I: MIDDLE CHILDHOOD

Course augments from an experiential perspective knowledge of early adolescence period of development.

Placement in school settings (30 hrs.). Corequisite: HDFS 24013.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Lifespan Development and Educational Sciences

CHDS 37700 HUMAN RELATIONS IN A WORLD OF DIVERSITY

Emphasizes the study/practice of facilitative human relations in personal and work/career spheres. Topics include, not limited to gender, sexual orientation/multiculturalism/conflict resolution/value clarification/family influence. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 37800 SMALL GROUP PROCESS

Students learn to understand the dynamics of problem-solving groups and how to become effective leaders and members.

Topics include climate, goals, decision making, communication, leadership, membership. Experience-based learning combined with conceptualizing.

Prerequisite: None.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 37900 APPLIED CAREER STUDIES CORNERSTONE

Cornerstone course for the major in applied career studies. Instructs students about how the work role in industrial and information societies has evolved to its current organization. Explains how the boundaryless organization of work has transformed the meaning of jobs and careers for the 21st century. Students personalize the information by reflecting on the role of work in their own lives and then construct a meaningful plan for using the curriculum in applied career studies to explore and prepare for possible selves and preferred futures. Prerequisite: applied studies (APST) major and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 40093 VARIABLE TITLE WORKSHOP IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Topics of special interest to students who desire to increase their knowledge in counseling and related areas. Kent faculty and experts from other institutions and agencies. Topics will be announced in the schedule of classes booklet. Repeated registration permitted. Prerequisite: None.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

CHDS 41791 SEMINAR: EDUCATIONAL STUDIES AND HELPING PROFESSIONS

Directed discussion applying concepts from previous educational experiences to the internship work experience. Corequisite: CHDS 41892.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

CHDS 41892 INTERNSHIP IN EDUCATIONAL STUDIES AND HELPING PROFESSIONS

Placement in a worksite congruent with student's career aspirations. Ten hrs. week for 15 weeks for two semesters or 20 hrs. week for 15 weeks one semester for a total of 300 hours. Prerequisite: Senior standing. Corequisite: CHDS 41791.

10.000 Credit hours

10.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

**CHDS 44084 BEHAVIORAL SCIENCE IN HEALTH PROFESSIONS**

(repeatable for a total of 12 hours) behavioral science perspective on individual and social issues affecting medical care delivery. Individually arranged. May include field projects participation in health related investigations and presentations and personal development programs. Prerequisite: Permission. 1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 47900 APPLIED CAREER STUDIES CAPSTONE SEMINAR

Designed to help students articulate and integrate the ten competencies that are part of the bachelor's degree in applied career studies. In part, an electronic portfolio will be used to help describe familiarity with the competencies. Prerequisites: applied studies (APST) major and special approval. 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 50093 VARIABLE TITLE WORKSHOP IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and, paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of college of continuing studies. Limit of 6 hours with adviser's permission toward any degree program. Prerequisite: Graduate standing. 1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Lifespan Development and Educational Sciences

CHDS 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing and special approval. 2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Lifespan Development and Educational Sciences

CHDS 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: CHDS 60199 and graduate standing. 2.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Master's Thesis
Department: Lifespan Development and Educational Sciences

CHDS 64084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS

Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged. Prerequisite: Graduate standing and special approval. 1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 67530 INTRODUCTION TO COUNSELING

A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 67531 INDIVIDUAL COUNSELING PROCEDURES

Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 67571 ADVANCED INDIVIDUAL COUNSELING PRACTICUM

Supervised experience in counseling. Students meet for individual supervision and in seminar groups to assess their effectiveness in helping relationships. Prerequisite: Minimum grade of B- (2.7) in CHDS 68166 and grade of S in CHDS 67636 and 67637 and graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

CHDS 67580 MULTICULTURAL COUNSELING

Seminar focused on information and sensitivities needed to work effectively with the culturally different. Consideration given to such issues as racism and cultural institutional and political oppression. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 67591 SEMINAR IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in schedule of classes booklet. Prerequisite: Graduate standing and special approval. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

CHDS 67595 SPECIAL TOPICS IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Presentation of topics of special interest to students in counseling and human development services. Offered irregularly. Topics will be announced in schedule of classes booklet. Prerequisite: Graduate standing and special approval. 1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 67596 INDIVIDUAL INVESTIGATION IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration. May be repeated. Prerequisite: Graduate standing and special approval. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Lifespan Development and Educational Sciences

CHDS 67628 DIAGNOSIS IN COUNSELING

To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis. Prerequisite: Graduate standing and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 67636 PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING

Students begin supervised practice of counseling with clients, primarily in the Counseling and Human Development Center. Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role. Prerequisites: minimum B- (2.7) grade in CHDS 67530 and 67531



and 67663 and 67820 and 68126 and 68182; and clinical mental health counseling major (CMHC); and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

CHDS 67637 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING

Involves individual counseling and group work with appropriate populations.

Caseload geared toward preparation for internship. Prerequisite: CHDS 67636 with a grade of satisfactory; CHDS 67628 or 77628 with a grade of B- (2.7) or better; graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

CHDS 67663 ORIENTATION TO CLINICAL MENTAL HEALTH COUNSELING

Attention is given to the identity, professional standards and organizations, and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 67664 THEORY AND PRACTICES IN ADDICTIONS COUNSELING

Introduction to theories, models, and practices in addictions counseling, with emphasis on research supported approaches and ethical standards. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 67665 TREATMENT PLANNING IN ADDICTION COUNSELING

Assessment and diagnosis of substance use disorders, and determining appropriate care levels, treatment goals and interventions. Prerequisites: CHDS 67664 or CHDS 77664; graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 67695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING

Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet. Prerequisite: Graduate standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 67698 INDIVIDUAL RESEARCH IN CLINICAL MENTAL HEALTH COUNSELING

Student pursues research project on selected aspect of community counseling under supervision of instructor.

Arrangements with instructor must be made prior to registration. Credit hours to be fixed at registration time. May be repeated.

Prerequisite: Graduate standing and special approval.

1.000 TO 9.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences

CHDS 67810 GROUP PROCESS AND ANALYSIS

Experiential/didactic study of group dynamics to gain familiarity with group dynamics research and application with an emphasis on task groups. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 67815 LABORATORY IN INTERPERSONAL ENCOUNTER

A personal growth experience emphasizing openness and awareness, while developing skills in building human relationships in small groups. Prerequisite: Graduate standing.

1.000 Credit hours

3.000 Lab hours

Level: Graduate

Schedule Types: Laboratory

Department: Lifespan Development and Educational Sciences

CHDS 67820 GROUP WORK: THEORY AND TECHNIQUES

Didactic and experiential training in how to facilitate personal and interpersonal development in small groups, including group guidance, structured theme counseling and growth groups.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 67836 SMALL GROUP PRACTICUM

Supervised practicum conducting small groups for counseling, guidance and personal growth purposes. Both structured and unstructured group experiences are included. Prerequisite: CHDS 6/77820.

Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

CHDS 67840 THEORIES AND METHODOLOGY OF ORGANIZATION DEVELOPMENT

Study of theorists/practitioners in organization development. Involves exploration of consultant role, intervention theory and methods of systems change applied to groups and organizations.

Prerequisite: Three of the following CHDS 6/77810, 6/77835, 77838 and 6/77839.

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 67858 SEMINAR: GROUP COUNSELING

Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group. Prerequisite: Graduate standing and special approval.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

CHDS 68000 GUIDANCE OF AT RISK YOUTH

Counselors will be provided information that helps them identify individual(s) with highest potential for "at riskiness," understand the causal factors for "at riskiness," and recognize the behaviors that place individuals "at risk". Prerequisite: CHDS 6/ 78068. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

CHDS 68011 FOUNDATIONS OF SCHOOL COUNSELING

Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of



comprehensive school counseling programs. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68036 SCHOOL COUNSELING PRACTICUM

Supervised counseling practice in the counseling and human development center and/or in the Departments. Engage in counseling with children, teachers and colleagues. Direct observation and audio video recording and supervisory critiques used for counseling skills. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place. Prerequisite: CHDS 67530, 77530, 67531, 77531, 68069, 78069, 67820, 77820. Graduate standing and special approval.
4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

CHDS 68060 PROFESSIONAL SEMINAR IN SCHOOL COUNSELING

Development and identity of school counseling, with special emphasis on role, current issues and ethics. Prerequisite: Restricted to students in school counseling program. Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

CHDS 68066 COUNSELING ADOLESCENTS

A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered. Prerequisite: Minimum grade of B- (2.7) in CHDS 67530 and 67531 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68067 COUNSELING CHILDREN

Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media. Prerequisite: CHDS 6/77530, 6/77531. Graduate standing.
3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP

Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research. Prerequisite: Minimum grade of B- (2.7) in CHDS 68011 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68069 ORIENTATION TO SCHOOL COUNSELING

Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards, roles and functions of school counselors, and ethical standards and legal issues. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68095 SPECIAL TOPICS IN SCHOOL COUNSELING

Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet. Prerequisite: Graduate standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68098 INDIVIDUAL RESEARCH IN SCHOOL COUNSELING

Student pursues research project on a selected aspect of school counseling under the supervision of instructor. Arrangements with instructor must be made prior to registration. Credit hours and course level to be fixed at registration time. May be repeated. Prerequisite: Graduate standing and special approval.
1.000 TO 9.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Lifespan Development and Educational Sciences

CHDS 68126 PRINCIPLES OF MEASUREMENT AND APPRAISAL

Instruction and experience in utilizing observational, measurement and appraisal

methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented. Prerequisites: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68128 INDIVIDUAL APPRAISAL IN COUNSELING

A laboratory experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology. Prerequisite: Minimum grade of B- (2.7) in CHDS 68126 and 67628 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68130 PSYCHOPATHOLOGY FOR COUNSELORS

This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment and psychopharmacological aspects of treatment are considered. Prerequisite: Minimum grade of B- (2.7) in CHDS 67628 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68165 CAREER COUNSELING

An analysis of the major approaches to career counseling, including use of diagnosis, test interpretation and occupational information. Prerequisite: CHDS 68182 or 78182. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68167 ADVANCED COUNSELING PROCEDURES

Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used. Prerequisite: Minimum grade of B- (2.7) in CHDS 67628 and grade of S in CHDS 67636 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences



CHDS 68168 ADVANCED COUNSELING THEORIES

Consideration in depth of major counseling theories, with special emphasis on comparative analysis. original readings used. Prerequisite: Grade of S in CHDS 67636 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68181 GESTALT THERAPY

Introductory course on theory and techniques of Gestalt therapy. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68182 CAREER DEVELOPMENT AND GUIDANCE

The world of work, theories of career choice, techniques in career guidance. An introductory course in the careers area for practitioners in education, helping services, human resources and personnel. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68284 SUPERVISION OF COUNSELING

Focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. includes supervisory experiences. Prerequisite: Grade of S in CHDS 67637 or 77637; and 77692 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68525 INTRODUCTION TO FAMILY THERAPY

Overview of families and family therapy highlighting systems theory, and issues of therapy related to family life cycle, family ethnicity, family processes, the professional and identity of family therapists, and the discovery of personal assumptions about families. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68529 COUPLES THERAPY: THEORY AND TECHNIQUES

Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting. Prerequisites: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68531 PREPRACTICUM: MARRIAGE AND FAMILY THERAPY TECHNIQUES

Focuses on gaining and integrating observational, conceptual and therapeutic skills of family therapy in a "learning by doing" atmosphere. Utilizing videotape simulation and initial interviewing of families students will acquire basic family therapy skills. Prerequisite: CHDS 68529, 68533. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68533 FAMILY THERAPY: THEORY AND TECHNIQUES

Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68535 ASSESSMENT AND RESEARCH IN MARRIAGE AND FAMILY THERAPY

Utilization of assessment skills, techniques and instruments relevant to the practice of marriage and family therapy will be focused upon. Critical judgment regarding research design and findings will be emphasized. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68536 PRACTICUM IN COUPLES AND FAMILY THERAPY

An intensive-extensive supervised experience in the practice of couples and family therapy. Live video and audio supervisory processes will be utilized to assist with skill development. Prerequisites: Graduate standing in clinical mental health counseling (CMHC) or school counseling (SCON).
3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

CHDS 68538 ADVANCED MULTICULTURAL COUNSELING

This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided. Prerequisite: Graduate standing; CHDS 6/77580, 6/77531.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 68591 SEMINAR: MARRIAGE AND FAMILY

Focuses on issues of concern to the marriage and family therapist: family violence, sexuality, divorce, blended families, chronic illness, etc. Relevance to issues raised in practicum will be stressed. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

CHDS 70093 VARIABLE TITLE WORKSHOP IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Workshops and training laboratories in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of College of Continuing Studies. Limit of 6 hours with adviser's permission toward any degree program. Prerequisite: Doctoral standing.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Lifespan Development and Educational Sciences

CHDS 74084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS

Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged. Prerequisite: Doctoral standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

**CHDS 77530 INTRODUCTION TO COUNSELING**

A survey of counseling practice that examines the nature of counseling process and relationships as described from major theoretical perspectives. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

CHDS 77531 INDIVIDUAL COUNSELING PROCEDURES

Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

CHDS 77580 MULTICULTURAL COUNSELING

Seminar focused on information and sensitivities needed to work effectively with the culturally different. Consideration given to such issues as racism and cultural institutional and political oppression. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

CHDS 77584 WRITING FOR PROFESSIONAL PUBLICATIONS

Seminar experience designed to prepare professionals to publish research findings, conceptualizations and professional field experiences in refereed journals and books. Elements of grant writing also treated. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

CHDS 77591 SEMINAR IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in schedule of class's booklet. Prerequisite: Doctoral standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and

Educational Sciences

CHDS 77628 DIAGNOSIS IN COUNSELING

To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis. Prerequisite: Doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

CHDS 77636 PRACTICUM I: CLINICAL MENTAL HEALTH COUNSELING

Enrollees begin supervised practice of counseling with clients, primarily in the Counseling and Human Development Center. Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role. Prerequisite: Minimum grade of B- (2.7) in the following courses: CHDS 67530 or 77530; and 67531 or 77531; and 67663 or 77663; and 67820 or 77820; and 68126 or 78126; and 68182 or 78182; and clinical mental health counseling (CMHC) major; and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and

Educational Sciences

CHDS 77637 PRACTICUM II: CLINICAL MENTAL HEALTH COUNSELING

Involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship. Controlled registration. May be repeated. Prerequisite: CHDS 77628 and 77636; and clinical mental health counseling (CMHC) majors; and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and

Educational Sciences

CHDS 77663 ORIENTATION TO CLINICAL MENTAL HEALTH COUNSELING

Attention is given to the identity, professional standards and organizations and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

CHDS 77664 THEORY AND PRACTICES IN ADDICTIONS COUNSELING

Introduction to theories, models, and practices in addictions counseling, with

emphasis on research supported approaches and ethical standards.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

CHDS 77665 TREATMENT PLANNING IN ADDICTIONS COUNSELING

Assessment and diagnosis of substance use disorders, and determining appropriate care levels, treatment goals and interventions. Prerequisites: CHDS 67664 or CHDS 77664; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

CHDS 77695 SPECIAL TOPICS IN CLINICAL MENTAL HEALTH COUNSELING

Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet. Prerequisite: Doctoral standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

CHDS 77698 INDIVIDUAL RESEARCH IN COMMUNITY COUNSELING

Student pursues research project on selected aspect of community counseling under supervision of instructor. Arrangements with instructor must be made prior to registration. Prerequisite: Doctoral standing and special approval.

1.000 TO 9.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and

Educational Sciences

CHDS 77792 INTERNSHIP I: CLINICAL MENTAL HEALTH COUNSELING

Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders. Prerequisite: clinical mental health counseling (CMHC) major; and doctoral standing; and special approval.

3.000 Credit hours

2.000 Lecture hours

20.000 Other hours

Level: Graduate

Schedule Types: Lecture, Practicum

Department: Lifespan Development and

Educational Sciences



CHDS 77810 GROUP PROCESS AND ANALYSIS

Experiential/didactic study of group dynamics to gain familiarity with group dynamics research and application with an emphasis on task groups. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 77815 LABORATORY IN INTERPERSONAL ENCOUNTER

A personal growth experience emphasizing openness and awareness, while developing skills in building human relationships in small groups. Prerequisite: Doctoral standing.
1.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Lifespan Development and Educational Sciences

CHDS 77820 GROUP WORK: THEORY AND TECHNIQUES

Didactic and experiential training in how to facilitate personal and interpersonal development in small groups, including group guidance, structured theme counseling and growth groups. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 77836 SMALL GROUP PRACTICUM

Supervised practicum conducting small groups for counseling, guidance and personal growth purposes. Both structured and unstructured group experiences are included. Prerequisite: CHDS 6/77820. Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

CHDS 77838 PLANNING AND IMPLEMENTING ORGANIZATIONAL CHANGE

An introduction to basic conceptions of Departments and human service organizations as complex organizations and to frameworks useful in conceptualizing organizational change. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 77840 THEORIES AND METHODOLOGY OF ORGANIZATION DEVELOPMENT

Study of theorists/practitioners in organization development. Involves exploration of consultant role, intervention theory and methods of systems change applied to groups and organizations. Prerequisite: Three of the following: CHDS 6/77810, 6/77835, 77838 and 6/77839. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 77858 SEMINAR: GROUP COUNSELING

Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group. Prerequisite: Doctoral standing and special approval.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

CHDS 77892 INTERNSHIP II: CLINICAL MENTAL HEALTH COUNSELING

Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders. Prerequisite: clinical mental health counseling major; and doctoral standing; and special approval.
3.000 Credit hours
2.000 Lecture hours
20.000 Other hours
Level: Graduate
Schedule Types: Lecture, Practicum
Department: Lifespan Development and Educational Sciences

CHDS 78000 GUIDANCE OF AT RISK YOUTH

Counselors will be provided information that helps them identify individual(s) with highest potential for "at riskness", understand the causal factors for "at riskness", and recognize the behaviors that place individuals "at risk". Prerequisite: CHDS 6/ 78068. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78011 FOUNDATIONS OF SCHOOL COUNSELING

Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel and on the development of

comprehensive school counseling program. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78036 SCHOOL COUNSELING PRACTICUM

Supervised counseling practice in the Counseling and Human Development Center and/or in the Departments. Engage in counseling with children, teachers and colleagues. Direct observation and audio video recording and supervisory critiques used for counseling skills. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: CHDS 6/77530, 6/77531, 6/78069, 6/77820. Doctoral standing and special approval.
4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

CHDS 78060 PROFESSIONAL SEMINAR IN SCHOOL COUNSELING

Development and identity of school counseling, with special emphasis on role, current issues and ethics. Prerequisite: Restricted to students in school counseling program. Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

CHDS 78066 COUNSELING ADOLESCENTS

A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans and referral procedures for youth will be covered. Prerequisite: Minimum grade of B- (2.7) in CHDS 67530 or 77530; and 67531 and 77531 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78067 COUNSELING CHILDREN

Seminar focusing on intra and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play media. Prerequisite: CHDS 6/77530, 6/77531. Doctoral standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78068 SCHOOL COUNSELING PROGRAM MANAGEMENT AND LEADERSHIP

Focuses on the management, leadership and implementation of comprehensive school counseling program including developmental counseling approaches, management systems and outcome research. Prerequisite: Minimum grade of B- (2.7) in CHDS 68011 or 78011 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78069 ORIENTATION TO SCHOOL COUNSELING

Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards roles and functions of school counselors and ethical standards and legal issues. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78095 SPECIAL TOPICS IN SCHOOL COUNSELING

Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet. Prerequisite: Doctoral standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78098 INDIVIDUAL RESEARCH IN SCHOOL COUNSELING

Student pursues research project on a selected aspect of school counseling under the supervision of instructor. Arrangements with instructor must be made prior to registration. Prerequisite: Doctoral standing and special approval.
1.000 TO 9.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Lifespan Development and Educational Sciences

CHDS 78126 PRINCIPLES OF MEASUREMENT AND APPRAISAL

Instruction and experience in utilizing observational, measurement and appraisal

methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented. Prerequisites: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78128 INDIVIDUAL APPRAISAL IN COUNSELING

A laboratory experience in selecting, administering and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology. Prerequisite: Minimum grade of B- (2.7) in CHDS 68126 or 78126; and 67628 or 77628 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78130 PSYCHOPATHOLOGY FOR COUNSELORS

This course covers the etiology and treatment of various disorders covered in the current DSM system. Assessment, treatment and psychopharmacological aspects of treatment are considered. Prerequisite: Minimum grade of B- (2.7) in CHDS 67628 or 77628 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78165 CAREER COUNSELING

An analysis of the major approaches to career counseling, including use of diagnosis, test interpretation and occupational information. Prerequisite: CHDS 6/78182. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78181 GESTALT THERAPY

Introductory course on theory and techniques of Gestalt therapy. Prerequisite: Doctoral standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78182 CAREER DEVELOPMENT AND GUIDANCE

The world of work, theories of career choice, techniques in career guidance. An

introductory course in the careers area for practitioners in education, helping services, human resources and personnel. Prerequisite: Doctoral standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78192 INTERNSHIP I: SCHOOL COUNSELING

Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the implementation of advocacy, leadership, collaboration, and systemic change is highlighted. This course meets specific CACREP standards. Prerequisite: doctoral standing and special approval.
3.000 Credit hours
2.000 Lecture hours
20.000 Other hours
Level: Graduate
Schedule Types: Lecture, Practicum
Department: Lifespan Development and Educational Sciences

CHDS 78292 INTERNSHIP II: SCHOOL COUNSELING

Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the application of advocacy, leadership, collaboration and systemic change are highlighted in this course. This course meets specific CACREP standards. Prerequisite: doctoral standing and special approval.
3.000 Credit hours
2.000 Lecture hours
20.000 Other hours
Level: Graduate
Schedule Types: Lecture, Practicum
Department: Lifespan Development and Educational Sciences

CHDS 78525 INTRODUCTION TO FAMILY THERAPY

Overview of families and family therapy highlighting systems theory, and issues of therapy related to family life cycle, family ethnicity, family processes, the professional and identity of family therapists and the discovery of personal assumptions about families. Prerequisite: HDFS64023. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78529 COUPLES THERAPY: THEORY AND TECHNIQUES

Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting. Prerequisites: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate



Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78531 PREPRACTICUM: MARRIAGE AND FAMILY THERAPY TECHNIQUES

Focuses on gaining and integrating observational, conceptual and therapeutic skills of family therapy in a "learning by doing" atmosphere. Utilizing videotape simulation and initial interviewing of families, students will acquire basic family therapy skills. Prerequisite: CHDS 78529, 78533. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78533 FAMILY THERAPY: THEORY AND TECHNIQUES

Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic experiential and applied atmosphere. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78535 ASSESSMENT AND RESEARCH IN MARRIAGE AND FAMILY THERAPY

Utilization of assessment skills, techniques and instruments relevant to the practice of marriage and family therapy will be focused upon. Critical judgment regarding research design and findings will be emphasized. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78536 PRACTICUM IN COUPLES AND FAMILY THERAPY

An intensive-extensive supervised experience in the practice of couples and family therapy. Live video and audio supervisory processes will be utilized to assist with skill development. Prerequisite: doctoral standing in clinical mental health counseling (CMHC) or school counseling (SCON).
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

CHDS 78538 ADVANCED MULTICULTURAL COUNSELING

This course is designed to assist helping professionals in enhancing the knowledge

and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided. Prerequisite: Doctoral standing; CHDS 6/77580, 6/77531.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 78591 SEMINAR: MARRIAGE AND FAMILY

Focuses on issues of concern to the marriage and family therapist: family violence, sexuality, divorce, blended families, chronic illness, etc. Relevance to issues raised in practicum will be stressed. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

CHDS 80090 DOCTORAL RESIDENCY SEMINAR IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Focus on professional identity, current issues and trends and involvement in professional activities. Restricted to students admitted to doctoral program in CHDS. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

CHDS 80199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Lifespan Development and Educational Sciences

CHDS 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: Doctoral standing; CHDS 80199.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Lifespan Development and Educational Sciences

CHDS 87571 ADVANCED INDIVIDUAL COUNSELING PRACTICUM

Supervised experience in counseling. Students meet for individual supervision

and in seminar groups to assess their effectiveness in helping relationships. Prerequisite: Grade of S in CHDS 67636 or 77636; and 67637 or 77637; and minimum grade of B- (2.7) in CHDS 88166 and doctoral standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

CHDS 87595 SPECIAL TOPICS IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Presentation of topics of special interest to students in counseling and human development services. Offered irregularly. Topics will be announced in schedule of classes booklet. Prerequisite: Doctoral standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 87596 INDIVIDUAL INVESTIGATION IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to registration. Prerequisite: Doctoral standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Lifespan Development and Educational Sciences

CHDS 87871 ADVANCED PRACTICUM IN SMALL GROUP WORK

Supervised experience in group counseling, training, facilitation, and/or leadership in field setting or guidance bureau. Students meet in small groups to assess their work, obtain feedback from observers and integrate these learning's into better facilitative behavior. Prerequisite: CHDS 6/77836. Doctoral standing.
4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

CHDS 88167 ADVANCED COUNSELING PROCEDURES

Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used. Prerequisite: Grade of S in CHDS 67636 or 77636; and minimum grade of B- (2.7) in CHDS 67628 or 77628; and doctoral standing.



3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 88168 ADVANCED COUNSELING THEORIES

consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used. Prerequisite: Grade of S in CHDS 77636 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 88180 RESEARCH IN COUNSELING PROCESS AND OUTCOME

Review of classic and current studies in counseling process and outcome research trends and issues, design strategies and assessment procedures. Focus is on thorough understanding critique skills and synthesis. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 88281 RESEARCH SEMINAR IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Topics or problems of current concern in counseling and human development services. Review of significant studies, design strategies, instrumentation, data analysis and research issues. Topic to be announced in schedule of classes booklet. Prerequisite: EVAL 65510, 65511, 78716 and 78898. Doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

CHDS 88284 SUPERVISION OF COUNSELING

This seminar focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences. Prerequisite: Doctoral standing and special approval.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 88285 PRACTICUM IN COUNSELOR SUPERVISION

Supervision of students in introductory practicum provides activity to implement supervisory approach. Prerequisite: CHDS 88284 and doctoral standing.

2.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

CHDS 88286 DEVELOPMENT OF COUNSELOR EDUCATION PROGRAMS

Review of the planning, implementation and evaluation process in counselor education curricula. Skill development is fostered by simulation case study and, discussion of program design and review. Prerequisite: Students admitted to doctoral program in counseling and human development services. Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 88292 INTERNSHIP IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Professional service in field setting appropriate for counseling, consulting and personnel work, under supervision. May be repeated. Completion of program course requirements is necessary prior to registration. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing and special approval.

3.000 TO 6.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

CHDS 88294 COLLEGE TEACHING IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Application of planning, instructional and evaluation skills. Doctoral students lead skill training groups, lecture a large class and guide group discussion with faculty supervision. Arrangements for this experience to be made before semester begins. Prerequisite: CHDS 88286. Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

CHDS 88298 INDIVIDUAL RESEARCH IN COUNSELING AND HUMAN DEVELOPMENT SERVICES

Individual research on selected aspect of counseling and human development services under supervision of instructor. Arrangements with instructor must be made prior to registration. Prerequisite: Doctoral standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Lifespan Development and Educational Sciences

CHDS 88584 MARRIAGE AND FAMILY SUPERVISION/CONSULTATION

Focus placed on epistemology articulation of one's therapeutic and training approach and development of conceptualization and intervention skills of supervision. Prerequisite: CHDS 6/78536 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

Chemistry (CHEM)

CHEM 10030 CHEMISTRY IN OUR WORLD

A course for non-science majors that utilizes environmental and consumer topics to introduce chemical principles and develop critical thinking skills. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

CHEM 10031 CHEMISTRY IN OUR WORLD

Discovery-based experiments to introduce chemical principles and develop critical thinking skills. A course for non-science majors; includes chemistry that is related to environmental and consumer issues. Pre- or corequisite: CHEM 10030.

1.000 Credit hours
1.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory
Department: Chemistry and Biochemistry
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences
CHEM

CHEM 10050 FUNDAMENTALS OF CHEMISTRY

Basic concepts of chemistry (including atomic structure, chemical bonding and reactions) necessary for courses in elementary organic chemistry and physiological chemistry. Prerequisite: ACT



math score of 16; or MATH 10007 or MATH 10023 or MATH 10024 or MATH 11009 or MATH 11010 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12021.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

CHEM 10052 INTRODUCTION TO ORGANIC CHEMISTRY

Chemistry of organic and biological molecules necessary for the study of physiological chemistry. Prerequisite: CHEM 10050 or 10060.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

CHEM 10053 INORGANIC AND ORGANIC LABORATORY

Laboratory with experiments covering material from CHEM 10050, 10052 and 10054. Prerequisite: CHEM 10050 or 10054. Corequisite: CHEM 10052.

1.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

CHEM 10054 GENERAL AND ELEMENTARY ORGANIC CHEMISTRY

A course covering the basic concepts of general, inorganic and organic chemistry necessary for the study of physiological chemistry. Prerequisite: ACT math score of 16; or MATH 10007 or MATH 10023 or MATH 10024 or MATH 11009 or MATH 11010 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12021.

5.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

CHEM 10060 GENERAL CHEMISTRY I

Chemistry for science majors, emphasizing stoichiometry, introduction to chemical reactions, thermochemistry, atomic structure, periodicity, molecular structure and chemical bonding. Prerequisite: ACT math score of 18 or or MATH 11009 or MATH 11010 or MATH 11012 or MATH 12002 or MATH 12011 or MATH 12021.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

Course Attributes: TAG Science

CHEM 10061 GENERAL CHEMISTRY II

Continuation of CHEM 10060, emphasizing intermolecular forces, properties of mixtures, main group chemistry, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry.

Prerequisite: CHEM 10060.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

Course Attributes: TAG Science

CHEM 10062 GENERAL CHEMISTRY I LABORATORY

Laboratory covering pertinent aspects of CHEM 10060. Three hours weekly. Pre- or corequisite: CHEM 10060.

1.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

Course Attributes: TAG Science

CHEM 10063 GENERAL CHEMISTRY II LABORATORY

Laboratory covering pertinent aspects of CHEM 10061, including qualitative analysis. Prerequisite: CHEM 10062. Pre- or corequisite: CHEM 10061.

1.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

Course Attributes: TAG Science

CHEM 10960 HONORS GENERAL CHEMISTRY

Rigorous general chemistry course for qualified students. Stoichiometry equilibrium thermodynamics kinetics bonding and structure. Four hours lecture one three hour lab weekly. Prerequisite: special approval.

5.000 Credit hours

4.000 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Chemistry and Biochemistry

Course Attributes: Honors Course

CHEM 10961 HONORS GENERAL CHEMISTRY

A continuation of CHEM 10960.

Prerequisite: CHEM 10960.

5.000 Credit hours

4.000 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Chemistry and Biochemistry

Course Attributes: Honors Course

CHEM 16001 HORTICULTURAL CHEMISTRY

This course is designed to give a general overview of basic chemical concepts to students pursuing the two-year degree in horticulture technology. Lecture three hours weekly, lab three hours weekly. Offered only at the Salem campus. Prerequisite: None.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Chemistry and Biochemistry

CHEM 20095 SPECIAL TOPICS

(repeated registration permitted) selected topics in chemistry. Prerequisite: Permission.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

Course Attributes: Kent Core-Basic Sciences

CHEM 20098 INTRO TO CHEMICAL RESEARCH

Research experience for freshmen and sophomores. Registration requires prior approval of the research director. Does not count toward the electives for the BS or BA chemistry degree. A written report is required. Prerequisite: GPA of 2.5 in chemistry and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Research

Department: Chemistry and Biochemistry

CHEM 20111 ELEMENTARY QUANTITATIVE ANALYSIS

Theory and application of volumetric analysis; acid base, gravimetric, complexation, redox; spectroscopic, electroanalytical and chromatographic methods of analyses. For non-majors. Four hours lecture weekly. Prerequisite: CHEM 10063 or 10053 and special approval.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 20112 ELEMENTARY QUANTITATIVE LABORATORY

Laboratory practice of methods discussed in 20111. Six hours laboratory weekly. Pre- or corequisite: CHEM 20111.

2.000 Credit hours

4.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

CHEM 20284 PHYSIOLOGICAL CHEMISTRY

Chemistry and metabolism of carbohydrates, lipids, nucleic acids and proteins; regulation of metabolism, nature of enzyme action, clinical aspects of



biochemistry. Four hours of lecture weekly.
Prerequisite: CHEM 10052 or 10054 or 20481.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 20285 PHYSIOLOGICAL CHEMISTRY LAB

Experiments to illustrate basic biochemical techniques, structure and metabolism. Three hours laboratory weekly. Pre- or corequisite: CHEM 20284.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Chemistry and Biochemistry

CHEM 20481 BASIC ORGANIC CHEMISTRY I

Survey of the structure, preparation and reactions (including mechanisms) of organic compounds emphasizing the chemistry of biologically important functional groups. Prerequisite: CHEM 10061 or 10961.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry
Course Attributes: TAG Science

CHEM 20482 BASIC ORGANIC CHEMISTRY II

Continuation of CHEM 20481, emphasizing the chemistry of functional groups prevalent in biological chemistry. Prerequisite: CHEM 20481 or 30481.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry
Course Attributes: TAG Science

CHEM 30050 INTRODUCTION TO MATERIALS CHEMISTRY

This course provides an introduction to materials and their applications. It serves as the initiation for the materials chemistry concentration. Prerequisite: CHEM 10061 or 10961; and CHEM 30481 and PHY 23101.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 30105 ANALYTICAL CHEMISTRY I

Covers the fundamental theory, experimental methods, and applications of analytical chemistry principles in chemistry as well as other related disciplines such as life sciences and environmental science. It covers analytical measurements, experimental error, statistics, chemical equilibrium and titration, spectrometry as well as analytical separation techniques. Prerequisites: CHEM 10061.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 30106 ANALYTICAL CHEMISTRY II

Covers the theoretical basis and experimental methods of analytical chemistry not considered in Analytical Chemistry I (CHEM 30105), such as noise reduction, advanced chemical equilibria and titrations, electrochemistry, atomic spectroscopy, instrumental design, and sample preparation. Prerequisite: CHEM 30105

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 30107 ANALYTICAL CHEMISTRY LABORATORY I

Fundamental laboratory class for analytical chemistry. Provides hands-on experience to students on the subjects including data treatment, volumetric analysis, spectrophotometry, separation techniques and mass spectroscopy. Prerequisite: CHEM 10063. Pre-/corequisite: CHEM 30105.

1.000 Credit hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Chemistry and Biochemistry
Course Attributes: Writing Intensive Course

CHEM 30108 ANALYTICAL CHEMISTRY LABORATORY II

Advanced analytical chemistry laboratory class which covers a broad range of modern analytical techniques, including ion-selective electrodes, voltammetry, atomic spectroscopy, mass-spectrometry and capillary electrophoresis. Unlike Analytical Chemistry Laboratory I (CHEM 30107) this class focuses on forensic rather than bioanalytical applications. Prerequisites: CHEM 30105. Pre- or corequisite: CHEM 30107.

2.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Chemistry and Biochemistry
Course Attributes: Writing Intensive Course

CHEM 30284 INTRODUCTORY BIOLOGICAL CHEMISTRY

Chemistry and metabolism of biochemically important compounds; nature of enzyme action; metabolic regulation and bioenergetics. Prerequisite: CHEM 20481; or CHEM 30481 and 30482.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 30285 BIOCHEMISTRY LABORATORY

Experiments on the isolation, purification and characterization of biologically important molecules recombinant DNA technology. Prerequisite: CHEM 10063; Co- or prerequisite: CHEM 30284, 40245 or 40247.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Chemistry and Biochemistry

CHEM 30301 INORGANIC CHEMISTRY I

Chemistry of hydrogen, ions in aqueous solution, redox reactions, coordination complexes: d-block chemistry, crystal field model, electronic spectra and magnetism, introduction to organometallic chemistry, periodic trends for p-block elements. Prerequisite: CHEM 10061.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 30475 ORGANIC CHEMISTRY LABORATORY I

Practical experience in organic laboratory techniques on both micro- and macro scale: physical methods for purification and characterization of organic compounds, introduction to organic reactions. Prerequisite: CHEM 10063; Pre/corequisite: CHEM 20481 or 30481.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Chemistry and Biochemistry
Course Attributes: TAG Science

CHEM 30476 ORGANIC CHEMISTRY LABORATORY II

Continuation of CHEM 30475, involving multi-step organic experiments that utilize techniques introduced in CHEM 30475. Prerequisite: CHEM 30475. Pre- or corequisite: CHEM 20482 or 30482.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Chemistry and Biochemistry
Course Attributes: TAG Science

CHEM 30481 ORGANIC CHEMISTRY I

Introduction to organic chemistry from structural, mechanistic and synthetic viewpoints with an emphasis on the chemistry of biologically relevant functional groups. Prerequisite: CHEM 10061 or 10961.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 30482 ORGANIC CHEMISTRY II

Continuation of CHEM 30481; organic chemistry from mechanistic and synthetic



viewpoints; IR and NMR spectroscopy; mass spectrometry. Prerequisite: CHEM 30481.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40053 MATERIALS CHEMISTRY LABORATORY

Exploration of the synthesis, characterization and application of inorganic and organic materials. Prerequisite: CHEM 30050.

2.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Chemistry and Biochemistry

CHEM 40093 VARIABLE TITLE WORKSHOP IN CHEMISTRY

Variable titled workshop in chemistry. Prerequisite: Special approval.

1.000 TO 6.000 Credit hours
1.000 TO 6.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Chemistry and Biochemistry

CHEM 40099 SENIOR HONORS THESIS

For departmental honors may be started summer prior to senior year. Register each semester during senior year. Minimum total credit 5-hours. Prerequisite: Departmental and honors college approval.

1.000 TO 10.000 Credit hours
1.000 TO 10.000 Other hours
Level: Undergraduate
Schedule Types: Senior Project/Honors Thesis
Department: Chemistry and Biochemistry
Course Attributes: Honors Course

CHEM 40109 BIOANALYTICAL CHEMISTRY

Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. Provides an overview of the fundamental biological targets for bioanalytical assays, such as lipids, peptides, proteins, nucleic acids and cells. Briefly introduces traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Discusses approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques. Prerequisite: CHEM 30105. Corequisite: CHEM 30284 or 40245 or 40261.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40112 ADVANCED ANALYTICAL CHEMISTRY

Advanced study of the theory and applications of analytical methods to the study of chemical equilibria: acid/base,

precipitation, complexation and redox methods. Prerequisite: CHEM 40555.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40113 CHEMICAL SEPARATIONS

Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography. Prerequisite: CHEM 30106.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40114 ELECTROANALYTICAL CHEMISTRY

The physical basis of electrochemistry; instrumentation and applications in chemical analysis. Polarography, coulometry, voltammetry and ion selective electrodes. Three hours lecture weekly. Prerequisite: CHEM 40555.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40195 SPECIAL TOPICS IN ANALYTICAL CHEMISTRY

Selected topics in analytical chemistry. Repeated registration permitted.

Prerequisite: Special approval.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40245 BIOCHEMICAL FOUNDATIONS OF MEDICINE

Chemistry and metabolism of biologically important compounds; enzyme catalysis; metabolic regulation, inborn and induced errors of metabolism. For students in integrated life science (ILS) program. Prerequisite: CHEM 30481 and pre- or corequisite: CHEM 30482.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40248 ADVANCED BIOLOGICAL CHEMISTRY

Chemistry of biologically important molecules. Advanced topics in metabolic and enzyme regulation; enzyme kinetics and mechanism; DNA replication, recombination and repair; gene transcription and translation; recombinant DNA technology; selected areas in molecular physiology. Three hours weekly. Prerequisite: CHEM 30284 or 40245 or 40247.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40251 ADVANCED BIOLOGICAL CHEMISTRY LABORATORY

Practical experience in the chemistry of biologically important molecules. Properties of proteins, lipids and nucleic acids. Recombinant DNA technology. Six hours weekly. Prerequisite: CHEM 30284 or 40245 or 40247.

2.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry
Course Attributes: Writing Intensive Course

CHEM 40261 PRINCIPLES OF BIOCHEMISTRY I

Introduction to biochemical principles regarding the structure, function and metabolism of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.

Prerequisites: CHEM 20481 or 30482; and CHEM 40555 or 40567.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40262 PRINCIPLES OF BIOCHEMISTRY II

Supramolecular and cellular aspects of biochemistry including DNA replication, repair, and recombination and modification; transcription and translation; signal transduction, post-translational modification; transcriptomics and proteomics. Prerequisites: CHEM 40261 or CHEM 40245; special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40263 PHYSICAL BIOCHEMISTRY I

Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems, spectroscopy, structure and properties of biological molecules. Prerequisite: CHEM 40555 or 40567.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 40295 SPECIAL TOPICS IN BIOCHEMISTRY

Selected topics in biochemistry. Repeat registration permitted. Prerequisite: Special approval.

1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture



Department: Chemistry and Biochemistry

CHEM 40302 INORGANIC CHEMISTRY II

Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nano-materials, nanoscience and nanotechnology. Prerequisite: CHEM 30301

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40303 INORGANIC CHEMISTRY III

Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedra complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry. Prerequisite: CHEM 40302.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40352 INORGANIC MATERIALS CHEMISTRY

Broad survey of the synthesis, properties, characterization and applications of inorganic materials. Prerequisite: CHEM 30050 and 40361.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40364 INTERMEDIATE INORGANIC CHEMISTRY LABORATORY

A laboratory course providing experience in the synthesis of significant inorganic compounds and the techniques of various experimental and spectroscopic methods and chromatographic separations. Prerequisite: CHEM 40303.

1.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

CHEM 40365 BIOLOGICAL INORGANIC CHEMISTRY

Physical methods, s-block metals, metal ion-induced folding, electron transfer proteins, oxidoreductases, substrate binding and activation by non-redox mechanisms, biomineralization, group-atom transfer and metals in medicine. Prerequisite: CHEM 30360.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40395 SPECIAL TOPICS IN INORGANIC CHEMISTRY

Selected topics in inorganic chemistry.

Repeated registration permitted.

Prerequisite: Special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40451 ORGANIC MATERIALS CHEMISTRY

Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials. Prerequisite: CHEM 30482 and CHEM 30050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS

Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving. Prerequisite: CHEM 30482.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40477 INTERMEDIATE ORGANIC CHEMISTRY LABORATORY

Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses. Prerequisite: CHEM 30476.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

CHEM 40478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS

Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices. Prerequisite: CHEM 30482.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40483 INTERMEDIATE ORGANIC CHEMISTRY

Continuation of CHEM 30482, organic chemistry from mechanistic and synthetic viewpoints. Prerequisite: CHEM 30481 and CHEM 30482.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40495 SPECIAL TOPICS IN ORGANIC CHEMISTRY

Selected topics in organic chemistry.

Repeat registration permitted. Prerequisite: Special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40555 ELEMENTARY PHYSICAL CHEMISTRY

Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences. Prerequisite: CHEM 10061 and MATH 22005 and PHY 23102; and chemistry (CHEM) major and junior standing. Pre- or corequisite: CHEM 30107.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40556 ELEMENTARY PHYSICAL CHEMISTRY

A continuation of CHEM 40555. Areas covered include quantum mechanics, atomic and molecular structure, spectroscopy, statistical mechanics, theories of reaction rates and the solid state. Prerequisite: CHEM 40555 or PHY 45301.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40557 PHYSICAL CHEMISTRY LABORATORY

Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data. Prerequisite: CHEM 40556.

2.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

CHEM 40567 BASIC CONCEPTS OF PHYSICAL CHEMISTRY

Traditional aspects of physical chemistry with minimal calculus treatment. Applications to the health sciences emphasized. Four hours lecture weekly. Cannot be used to satisfy requirements for chemistry concentration within the Bachelor of Science in Chemistry. Prerequisite: CHEM 10062, PHY 13002, MATH 12002.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

**CHEM 40568 ELEMENTARY PHYSICAL CHEMISTRY LABORATORY**

Provides hands-on experience with calorimetry, viscosimetry and spectroscopic techniques. Prerequisite: CHEM 40555 or 40567.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

CHEM 40570 INTERMEDIATE PHYSICAL CHEMISTRY

Special topics of physical chemistry, with applications to problems of chemical interest that are not covered in basic course. Two hour lecture weekly. Prerequisite: CHEM 40556.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40571 SURFACE CHEMISTRY

Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Two hours lecture weekly. Prerequisite: CHEM 40555 or 40567.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40575 MOLECULAR SPECTROSCOPY

Survey of the fundamental principles of the interaction of radiation with matter, with an emphasis on the interpretation of microwave, infrared and ultraviolet-visible spectra. Introduction to group theory and its application to spectroscopic interpretation. Description of modern experimental techniques. Prerequisite: CHEM 40556.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40583 PHYSICAL CHEMISTRY OF MACRO-MOLECULES

Designed to cover the basic principles of polymer science. Structure, properties and characterization of polymeric systems will be discussed. Two hours lecture weekly. Prerequisite: CHEM 40555 or 40567.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40595 SPECIAL TOPICS IN PHYSICAL CHEMISTRY

Selected topics in physical chemistry. Repeat registration permitted. Prerequisite: Special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40795 CURRENT TOPICS IN CHEMICAL EDUCATION

Recent advances in chemical research, instrumentation and theory important to chemical educators. Prerequisite: Permission.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 40796 INDIVIDUAL INVESTIGATION

Registration requires prior approval of the research director. Written report required. Maximum of two hours may be applied to the four hour CHEM 40000 elective requirement for the chemistry concentration within the B.S. in Chemistry. Prerequisite: 2.50 GPA in chemistry and special approval.

1.000 TO 8.000 Credit hours

1.000 TO 8.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Chemistry and Biochemistry

CHEM 50000 CHEMICAL INFORMATION

Access to chemical documents using indexes, formulating search strategies, citation mapping and manipulation of computer files are treated via lectures, readings and library problems. Prerequisite: CHEM 30482 and graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50093 VARIABLE TITLE WORKSHOP IN CHEMISTRY

Variable titled workshop in chemistry. Prerequisite: Graduate standing and special approval.

1.000 TO 6.000 Credit hours

1.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Chemistry and Biochemistry

CHEM 50109 BIOANALYTICAL CHEMISTRY

Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques.

Prerequisite: CHEM 30105; and graduate standing; and special approval. Corequisite: CHEM 30284 or 40245 or 40261.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50112 ADVANCED ANALYTICAL CHEMISTRY

An advanced study of the theory and applications of analytical chemical equilibria: acid/base, precipitation, complexation and redox. Prerequisite: CHEM 40555 and graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50113 CHEMICAL SEPARATIONS

Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography. Prerequisite: CHEM 30106 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50114 ELECTROANALYTICAL CHEMISTRY

The physical basis of electrochemistry; instrumentation and applications in chemical analysis. Polarography, coulometry, voltammetry and ion selective electrodes. Three hours lecture weekly. Prerequisite: CHEM 40555 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50245 BIOCHEMICAL FOUNDATIONS OF MEDICINE

Introduction to chemistry and metabolism of important compounds in biological systems; enzymes and characteristics of enzyme catalysis; regulation of metabolism at molecular, cellular and organism levels; inborn and induced errors of metabolism. Designed and scheduled for and priority given to students in integrated life sciences program. Prerequisite: CHEM 30481. Graduate standing.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50248 ADVANCED BIOLOGICAL CHEMISTRY

Chemistry of biologically important molecules. Advanced topics in: metabolic and enzyme regulation; enzyme kinetics and mechanism; DNA replication, recombination and repair; gene transcription and translation; recombinant DNA technology; selected areas in molecular physiology. Three hours weekly.



Prerequisite: CHEM 30284 or CHEM 40245 or CHEM 40247; graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50261 PRINCIPLES OF BIOCHEMISTRY I

Introduction to biochemical principles regarding the structure, function and metabolism of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.

Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50262 PRINCIPLES OF BIOCHEMISTRY II

Supramolecular and cellular aspects of biochemistry including DNA replication, repair, and recombination and modification; transcription and translation; signal transduction, post-translational modification; transcriptomics and proteomics. Prerequisites: CHEM 60261 or CHEM 70261; special approval; and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50263 PHYSICAL BIOCHEMISTRY I

Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules. Prerequisite: CHEM 40555 or 40567. Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50302 INORGANIC CHEMISTRY II

Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid-state and materials chemistry, nano-materials, nanoscience and nanotechnology. Prerequisite: CHEM 30301 and graduate standing.

2.000 Credit hours
2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50303 INORGANIC CHEMISTRY III

Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedral complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2

and d-block, bioinorganic chemistry.

Prerequisite: CHEM 50302 and graduate standing.

2.000 Credit hours
2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50352 INORGANIC MATERIALS CHEMISTRY

Broad survey of the synthesis, properties, characterization and applications of inorganic materials. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50365 BIOLOGICAL INORGANIC CHEMISTRY

Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolysis and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine. Prerequisite: CHEM 30360 and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50451 ORGANIC MATERIALS CHEMISTRY

Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS

Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR and mass spectrometric data through lectures and problem solving. Prerequisite: CHEM 30482 and graduate standing.

2.000 Credit hours
2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS

Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices. Prerequisite: CHEM 30482; graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50555 ELEMENTARY PHYSICAL CHEMISTRY

Fundamental concepts of physical chemistry, with example problems chosen emphasizing application in chemistry and the biological science. Prerequisite: CHEM 10061 and MATH 22005 and PHY 23102 and graduate standing. Pre- or corequisite: CHEM 30107.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50556 ELEMENTARY PHYSICAL CHEMISTRY

A continuation of CHEM 50555. Areas covered are chemical kinetics, quantum chemistry and the solid state. Prerequisite: CHEM 50555 or PHY 45301; graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50557 PHYSICAL CHEMISTRY LABORATORY

Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data, correlation of results with theory and an introduction to the computer treatment of data. Corequisite or prerequisite: CHEM 50555 and 50556; graduate standing.

2.000 Credit hours
4.000 Lab hours

Level: Graduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

CHEM 50558 PHYSICAL CHEMISTRY LABORATORY

Experiments and interpretation, reporting and correlation of data with theory.

Emphasis on gases, liquids, solutions, surface properties, thermodynamic variables rates of reaction, transport phenomena and spectral properties. Pre- or corequisite: CHEM 5/70556. Graduate standing.

2.000 Credit hours
5.000 Lab hours

Level: Graduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

CHEM 50570 INTERMEDIATE PHYSICAL CHEMISTRY

Special topics of physical chemistry, with applications to problems of chemical interest that are not covered in the basic course. Prerequisite: CHEM 5/70556. Graduate standing.

2.000 Credit hours
2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Chemistry and Biochemistry

CHEM 50571 SURFACE CHEMISTRY

Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Prerequisite: CHEM 40555 or 40567. Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50575 MOLECULAR SPECTROSCOPY

Survey of the fundamental principles of the interaction of radiation with matter, with an emphasis on the interpretation of microwave, infrared and ultraviolet-visible spectra. Introduction to group theory and its application to spectroscopic interpretation. Description of modern experimental techniques. Prerequisite: CHEM 40556 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50583 PHYSICAL CHEMISTRY OF MACROMOLECULES

A course designed to cover the basic principles of polymer science. Structure, properties and characterization of polymeric systems will be discussed. Prerequisite: CHEM 40555 or 40567. Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 50795 CURRENT TOPICS IN CHEMICAL EDUCATION

Designed to present recent advances in chemical research, instrumentation and theory to chemistry educators. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60050 CHEMISTRY RESEARCH PROPOSAL

The student will prepare an independent and original research proposal that is completely distinct from the thesis project. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60111 THEORY OF CHEMICAL INSTRUMENTATION

General survey course on theory of instruments. Special emphasis on data interpretation and problem solving.

Prerequisite: Special approval and graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60115 ANALYTICAL SPECTROSCOPY

An advanced study of the fundamental principles, instrumentation and experimental techniques associated with different analytical spectroscopic methods. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

2.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Chemistry and Biochemistry

CHEM 60249 BIOCHEMICAL TECHNIQUES

Laboratory work emphasizing modern methods of biochemical investigation. Experiments illustrating use of spectrophotometric, chromatographic and isotopic methods. May be taken for graduate credit by chemistry majors. Prerequisite: Graduate standing. Co- or prerequisite: CHEM 60247 or CHEM 70247.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60250 BIOCHEMICAL TECHNIQUES

Laboratory work emphasizing modern methods of biochemical investigation. Experiments illustrating use of spectrophotometric, chromatographic and isotopic methods. May be taken for graduate credit by chemistry majors. Prerequisite: Graduate standing. Co- or prerequisite: CHEM 60249 or CHEM 70249.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60253 BIOMACROMOLECULAR STRUCTURES

Structure/function of motile processes in bacteria and eukaryotic cells; supramolecular structure and self-organization of proteins and nucleic acids in chromatin, spliceosomes, viruses and ribosomes. Prerequisite: graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60254 BIOMEMBRANES

Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60265 ENZYMOLOGY

Basic principles of steady-state and rapid enzyme kinetics; theory and experiment; catalytic mechanisms for selected enzymes. Prerequisite: Special approval and graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60269 NMR: THEORY AND APPLICATION IN BIOCHEMISTRY

Basic principles of high-resolution nuclear magnetic resonance will be applied at a general level in the study of biochemical structure and function. Prerequisite: CHEM 30284, 40551. Graduate standing.

1.000 OR 2.000 Credit hours

1.000 TO 2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY

Basic principles of high-resolution nuclear magnetic resonance will be applied at a general level in the study of biochemical structure and function. Prerequisite: CHEM 30284, 40551. Graduate standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 60297 ADVANCED BIOCHEMISTRY

Course content is variable, each offering being concerned with a specific area of biochemistry. Examples are metabolism and regulation of the chemistry of proteins and other macromolecules. Lecture 2 hours weekly. Prerequisite: Graduate standing and special approval.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: Chemistry and Biochemistry

CHEM 60299 THESIS II

Thesis students must continue registration until all degree requirements are met.



Prerequisite: CHEM 60199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Chemistry and Biochemistry

CHEM 60327 MODERN INORGANIC CHEMISTRY

Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes.

Prerequisite: CHEM 40362. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60337 INORGANIC MAGNETIC SPECTROSCOPY

Applications of magnetic resonance spectroscopic techniques (NMR, EPR and Mossbauer) in inorganic and organometallic compounds. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60347 CHEMICAL CRYSTALLOGRAPHY

Structure solution and refinement methods of X-ray diffraction data. Emphasis will be placed on single crystal techniques.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY

Presentation and discussion of current research papers in inorganic chemistry.

Participation by students and faculty.

Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 60471 ADVANCED ORGANIC CHEMISTRY-MECHANISTIC ASPECTS

Discussion of organic reaction mechanisms. Chemistry of reactive intermediates, aromaticity, addition/elimination, nucleophilic/electrophilic substitution, bonding theories and other fundamental topics governing organic reactions.

Prerequisite: CHEM 30482. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS

Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis. Prerequisite: CHEM 30482. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60473 STEREOSELECTIVE ORGANIC SYNTHESIS

Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis. Prerequisite: CHEM 30482; graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60541 ADVANCED PHYSICAL CHEMISTRY

Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics. Prerequisite: CHEM 50556.

Graduate standing.
3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60542 ADVANCED PHYSICAL CHEMISTRY

Covers basic materials of modern physical chemistry in the area of application of wave mechanics to atomic structures, chemical bonding and reactivity. Prerequisite: CHEM 6/70541. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60543 STATISTICAL THERMODYNAMICS

Theory and applications of statistical thermodynamics and mechanics on non-interacting and interacting particles of real and model systems; gases, solutions, crystals, polymers; dielectric and magnetic phenomena. Prerequisite: CHEM 6/70542. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60563 QUANTUM CHEMISTRY

Basic principles of quantum mechanics.

Those aspects of theory of special interest

to chemistry emphasized. Lecture three hours weekly. Prerequisite: CHEM 6/70541. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY

Presentation and discussion of original papers from current literature. Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 60894 COLLEGE TEACHING OF CHEMISTRY

Experience in teaching of chemistry at college level. Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 60898 MASTERS RESEARCH

Research for master's students. Credits earned may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Graduate standing.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Chemistry and Biochemistry

CHEM 61191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY

Discussion of recent chemical analysis methods, sample preparation and data handling, as well as practical student experience involving characterization of real samples. Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 61491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY

Practical experience in solution of current problems of structure, synthesis and mechanism in organic chemistry.

Participation extends throughout nine-month academic year. Repeat registration permitted. Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

**CHEM 62191 SEMINAR: ANALYTICAL CHEMISTRY**

Students register once each year. Participation extends throughout the academic year. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Chemistry and Biochemistry

CHEM 62291 SEMINAR: BIOCHEMISTRY

Students register once each year. Participation extends throughout the academic year. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Chemistry and Biochemistry

CHEM 62391 SEMINAR: INORGANIC CHEMISTRY

Students register once each year. Participation extends throughout the academic year. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Chemistry and Biochemistry

CHEM 62491 SEMINAR: ORGANIC CHEMISTRY

Students register once each year. Participation extends throughout the academic year. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Chemistry and Biochemistry

CHEM 62591 SEMINAR: PHYSICAL CHEMISTRY

Students register once each year. Participation extends throughout the academic year. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Chemistry and Biochemistry

CHEM 70000 CHEMICAL INFORMATION

Access to chemical documents using indexes, formulating search strategies, citation mapping and manipulation of computer files are treated via lectures readings and library problems. Prerequisite: CHEM 30482 and doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70050 CHEMISTRY RESEARCH PROPOSAL

The student will prepare an independent and original research proposal that is completely distinct from the dissertation project. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70093 VARIABLE TITLE WORKSHOP IN CHEMISTRY

Variable title workshop in Chemistry. Prerequisite: Special approval and doctoral standing.
1.000 TO 6.000 Credit hours
1.000 TO 6.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Chemistry and Biochemistry

CHEM 70109 BIOANALYTICAL CHEMISTRY

Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. The course will provide an overview of the fundamental biological targets for the bioanalytical assays, such as lipids, peptides, proteins, nucleic acids, and cells. The course will then briefly introduce traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Finally, the course will discuss approaches most recently developed in the field, which include lab-on-a-chip and single molecule techniques. Prerequisite: CHEM 30105; and doctoral standing; and special approval. Corequisite: CHEM 30284 or 40245 or 40261.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70111 THEORY OF CHEMICAL INSTRUMENTATION

General survey course on theory of instruments. Special emphasis on data interpretation and problem solving. Prerequisite: Special approval and doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70112 ADVANCED ANALYTICAL CHEMISTRY

An advanced study of the theory and applications of analytical chemical equilibria: acid/base, precipitation, complexation and redox. Prerequisite: CHEM 40555 and doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70113 CHEMICAL SEPARATIONS

Theory, instrumentation and applications of chemical separations for chemical analysis. Emphasis on gas and liquid chromatography. Prerequisite: CHEM 30106 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70114 ELECTROANALYTICAL CHEMISTRY

The physical basis of electrochemistry; instrumentation and applications in chemical analysis. Polarography, coulometry, voltammetry and ion selective electrodes. Three hours lecture weekly. Prerequisite: CHEM 40555 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70115 ANALYTICAL SPECTROSCOPY

An advanced study of the fundamental principles, instrumentation and experimental techniques associated with different analytical spectroscopic methods. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70195 ADVANCED TOPICS, ANALYTICAL

Advanced topics in analytical chemistry. Prerequisite: Special approval and doctoral standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70248 ADVANCED BIOLOGICAL CHEMISTRY

Chemistry of biologically important molecules. Advanced topics in: metabolic and enzyme regulation; enzyme kinetics and mechanism; DNA replication; recombination and repair; gene transcription and translation; recombinant DNA technology; selected areas in molecular physiology. Three hours weekly. Prerequisite: CHEM 30284 or 40245 or 40247 doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70249 BIOCHEMICAL TECHNIQUES

Laboratory work emphasizing modern methods of biochemical investigation. Experiments illustrating use of



spectrophotometric, chromatographic and isotopic methods. May be taken for graduate credit by chemistry majors. Prerequisite: Doctoral standing. Co- or prerequisite: CHEM 5/70247.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70250 BIOCHEMICAL TECHNIQUES

Laboratory work emphasizing modern methods of biochemical investigation. Experiments illustrating use of spectrophotometric, chromatographic and isotopic methods. May be taken for graduate credit by chemistry majors. Co- or prerequisite: CHEM 5/70249.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70253 BIOMACROMOLECULAR STRUCTURES

Structure/function of motile processes in bacteria and eukaryotic cells; supramolecular structure and self-organization of proteins and nucleic acids in chromatin, spliceosomes, viruses and ribosomes. Prerequisite: doctoral standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70254 BIOMEMBRANES

Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport. Prerequisite: doctoral standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70261 PRINCIPLES OF BIOCHEMISTRY I

Introduction to biochemical principles regarding the structure, function and metabolism of biomolecules including water, amino acids, proteins, carbohydrates and lipids; emphases on enzymes, membranes and bioenergetics.

Prerequisites: special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70262 PRINCIPLES OF BIOCHEMISTRY II

Supramolecular and cellular aspects of biochemistry including DNA replication, repair, and recombination and modification; transcription and translation; signal

transduction, post-translational modification; transcriptomics and proteomics. Prerequisites: CHEM 60261 or CHEM 70261; special approval; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70263 PHYSICAL BIOCHEMISTRY I

Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules. Prerequisite: CHEM 40555 or 40567. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70265 ENZYMOLOGY

Basic principles of steady-state and rapid enzyme kinetics; theory and experiment catalytic mechanisms for selected enzymes. Prerequisite: Special approval and doctoral standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70269 NMR: THEORY AND APPLICATION IN BIOCHEMISTRY

Basic principles of high-resolution nuclear magnetic resonance will be applied at a general level in the study of biochemical structure and function. Prerequisite: CHEM 30284, 40551. Doctoral standing.

1.000 OR 2.000 Credit hours

1.000 OR 2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70291 SEMINAR: RECENT DEVELOPMENTS IN BIOCHEMISTRY

Basic principles of high-resolution nuclear magnetic resonance will be applied at a general level in the study of biochemical structure and function. Prerequisite: CHEM 30284, 40551. Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 70295 ADVANCED TOPICS IN BIOCHEMISTRY

Advanced topics in biochemistry. Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70297 ADVANCED BIOCHEMISTRY

Course content is variable, each offering being concerned with a specific area of biochemistry. Examples are metabolism and regulation and the chemistry of proteins and other macromolecules. Lecture 2 hours weekly. Prerequisite: Doctoral standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: Chemistry and Biochemistry

CHEM 70327 MODERN INORGANIC CHEMISTRY

Synthesis, structure and reactivity of inorganic compounds including transition metal and organometallic complexes. Prerequisite: CHEM 40362. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70337 INORGANIC MAGNETIC SPECTROSCOPY

Applications of magnetic resonance spectroscopic techniques (NMR, EPR and Mossbauer) in inorganic and organometallic compounds. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70347 CHEMICAL CRYSTALLOGRAPHY

Structure solution and refinement methods of X-ray diffraction data. Emphasis will be placed on single-crystal techniques. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70352 INORGANIC MATERIALS CHEMISTRY

Broad survey of the synthesis, properties, characterization and applications of inorganic materials. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70365 BIOLOGICAL INORGANIC CHEMISTRY

Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine. Prerequisite: CHEM 30360 and doctoral standing.

3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70391 SEMINAR: RECENT DEVELOPMENTS IN INORGANIC CHEMISTRY

Presentation and discussion of current research papers in inorganic chemistry. Participation by students and faculty. Prerequisite: Doctoral standing.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Chemistry and Biochemistry

CHEM 70395 ADVANCED TOPICS, INORGANIC

Advanced topics in inorganic chemistry. Prerequisite: Special approval and doctoral standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70451 ORGANIC MATERIALS CHEMISTRY

Broad survey of the synthesis, properties characterization and applications of organic and polymeric materials. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70471 ADVANCED ORGANIC CHEMISTRY-MECHANISTIC ASPECTS

Discussion of organic reaction mechanisms. Chemistry of reactive intermediates, aromaticity, addition/elimination, nucleophilic/electrophilic substitution, bonding theories and other fundamental topics governing organic reactions. Prerequisite: CHEM 30482. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70472 ADVANCED ORGANIC CHEMISTRY-SYNTHETIC ASPECTS

Disconnection approach to organic synthesis. Modern methods for carbon-carbon bond formation and functional group interconversion, and their application to natural product synthesis. Prerequisite: CHEM 30482. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70473 STEREOSELECTIVE ORGANIC SYNTHESIS

Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis. Prerequisite: CHEM 30482; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70476 SPECTROSCOPIC IDENTIFICATION OF ORGANIC COMPOUNDS

Strategies for structural elucidation of organic compounds from analysis of infrared, proton and carbon NMR, and mass spectrometric data through lectures and problem solving. Prerequisite: CHEM 30482 and doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70478 SYNTHESIS OF ORGANIC LIQUID CRYSTALS

Synthesis of organic thermotropic liquid crystals including nematic, smectic and discotic variants. Evaluation of the phase types using polarizing microscopy and DSC. Brief introduction into their use in display devices. Prerequisite: CHEM 30482; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70495 ADVANCED TOPICS, ORGANIC

Advanced topics in organic chemistry. Repeated registration permissible. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70541 ADVANCED PHYSICAL CHEMISTRY

Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics. Prerequisite: CHEM 50556. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70542 ADVANCED PHYSICAL CHEMISTRY

Covers basic materials of modern physical chemistry in the area of application of wave mechanics to atomic structures, chemical

bonding and reactivity. Prerequisite: CHEM 6/70541 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70543 STATISTICAL THERMODYNAMICS

Theory and applications of statistical thermodynamics and mechanics on non-interacting and interacting particles of real and model systems; gases, solutions, crystals, polymers, dielectric and magnetic phenomena. Prerequisite: CHEM 6/70542 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70555 ELEMENTARY PHYSICAL CHEMISTRY

Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences. Prerequisites: CHEM 10061 and MATH 22005 and PHY 23102 and doctoral standing. Pre- or corequisite: CHEM 30107.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70556 ELEMENTARY PHYSICAL CHEMISTRY

Fundamental concepts of physical chemistry of current interest. Included are biological and medical aspects of physical chemistry. Graduate credit given to non-chemistry and non-physics majors and with permission to certain chemistry majors. Prerequisite: CHEM 5/70555; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Chemistry and Biochemistry

CHEM 70557 PHYSICAL CHEMISTRY LABORATORY

Experiments in numerous areas of physical chemistry, including the interpretation and reporting of obtained experimental data correlation of results with theory and an introduction to the computer treatment of data. Corequisite or prerequisite: CHEM 70555 and 70556; doctoral standing.
2.000 Credit hours
4.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Chemistry and Biochemistry

CHEM 70558 PHYSICAL CHEMISTRY LABORATORY

Experiments and interpretation, reporting and correlation of data with theory. Emphasis on gases, liquids, solutions,



surface properties, thermodynamic variables, rates of reaction, transport phenomena and spectral properties. Prerequisite: Doctoral standing.

2.000 Credit hours

4.000 Lab hours

Level: Graduate

Schedule Types: Laboratory

Department: Chemistry and Biochemistry

CHEM 70563 QUANTUM CHEMISTRY

Basic principles of quantum mechanics.

Those aspects of theory of special interest to chemistry emphasized. Lecture three hours weekly. Prerequisite: CHEM 6/70541 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70570 INTERMEDIATE PHYSICAL CHEMISTRY

Special topics of physical chemistry, with applications to problems of chemical interest that are not covered in the basic course. Prerequisite: CHEM 5/70556 and doctoral standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70571 SURFACE CHEMISTRY

Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Prerequisite: CHEM 40555 or 40567. Doctoral standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70575 MOLECULAR SPECTROSCOPY

Survey of the fundamental principles of the interaction of radiation with matter, with an emphasis on the interpretation of microwave, infrared and ultraviolet-visible spectra. Introduction to group theory and its application to spectroscopic interpretation. Description of modern experimental techniques. Prerequisite: CHEM 40556 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70583 PHYSICAL CHEMISTRY OF MACROMOLECULES

A course designed to cover the basic principles of polymer science. Structure properties and characterization of polymeric systems will be discussed. Prerequisite: CHEM 40555 or 40567. Doctoral standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70591 SEMINAR: RECENT DEVELOPMENTS IN PHYSICAL CHEMISTRY

Presentation and discussion of original papers from current literature. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 70595 ADVANCED TOPICS, PHYSICAL

Advanced topics in physical chemistry.

Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 70894 COLLEGE TEACHING OF CHEMISTRY

Experience in teaching of chemistry at college level. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Chemistry and Biochemistry

CHEM 71191 SEMINAR: PROBLEM SOLVING IN ANALYTICAL CHEMISTRY

Discussion of recent chemical analysis methods, sample preparation and data handling as well as practical student experience involving characterization of real samples. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 71491 SEMINAR: PROBLEM SOLVING IN ORGANIC CHEMISTRY

Practical experience in solution of current problems of structure, synthesis and mechanism in organic chemistry. Participation extends throughout nine month academic year. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 72191 SEMINAR: ANALYTICAL CHEMISTRY

Students register once each year.

Participation extends throughout the academic year. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 72291 SEMINAR: BIOCHEMISTRY

Students register once each year.

Participation extends throughout the academic year. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 72391 SEMINAR: INORGANIC CHEMISTRY

Students register once each year.

Participation extends throughout the academic year. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 72491 SEMINAR: ORGANIC CHEMISTRY

Students register once each year.

Participation extends throughout the academic year. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 72591 SEMINAR: PHYSICAL CHEMISTRY

Students register once each year.

Participation extends throughout the academic year. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Chemistry and Biochemistry

CHEM 80199 DISSERTATION I

Doctoral dissertation, for which registration in two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Special approval and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Chemistry and Biochemistry

CHEM 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: CHEM 80199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Chemistry and Biochemistry

**CHEM 80898 RESEARCH**

Research for doctoral students. Credits earned may be applied toward degree if department approves. Prerequisite: Doctoral standing.
1.000 TO 15.000 Credit hours
1.000 TO 15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Chemistry and Biochemistry

Chinese (CHIN)**CHIN 15101 ELEMENTARY CHINESE I**

An introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures. Prerequisite: None.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 15102 ELEMENTARY CHINESE II

A continuation of the introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures. Prerequisite: CHIN 15101.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 25201 INTERMEDIATE CHINESE I

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: CHIN 15102.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 25202 INTERMEDIATE CHINESE II

Continuation of CHIN 25201. Prerequisite: CHIN 25201.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 30095 SPECIAL TOPICS

Topic to be announced in schedule of classes. Prerequisite: Permission.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 35201 ADVANCED INTERMEDIATE CHINESE I

Continuation of Intermediate Chinese II. Emphasis is on building active vocabulary for comprehension, reading authentic texts,

writing of connected discourse and the development of conversational proficiency. Prerequisite: CHIN 25202.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 35202 ADVANCED INTERMEDIATE CHINESE II

Continuation of Advanced Intermediate Chinese I. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of conversational proficiency. Prerequisite: CHIN 35201.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 45096 INDIVIDUAL INVESTIGATION

(Repeatable for a total of 6 credit hours)
Individual study supervised by a faculty member on an approved topic dealing with Chinese language and/or culture. Prerequisite: CHIN 25201.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Modern and Classical Language Studies

CHIN 45201 ADVANCED CHINESE I

Continuation of Advanced Intermediate Chinese II. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of higher levels of conversational proficiency. Prerequisite: CHIN 35202.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 45202 ADVANCED CHINESE II

Continuation of Advanced Chinese I. Prerequisite: CHIN 45201.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 45301 CHINESE CULTURE

Survey of Chinese culture including ethnic, religious, and linguistic diversity and the roots of China's current socio-cultural context. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Modern and Classical Language Studies

CHIN 45302 BUSINESS CHINESE

Study of the business protocol, language functions, texts and vocabulary associated with travel and business in the Chinese-speaking world. Prerequisite: CHIN 35202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

Curriculum and Instruction (CI)**CI 40093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION**

Variable topic workshop designed to respond to curriculum trends and issues, and specialized needs. Prerequisite: Permission.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

CI 47095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION

1.000 TO 5.000 Credit hours
1.000 TO 5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 47096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION

1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

CI 47195 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION

Student teaching. Prerequisite: Permission.
1.000 TO 5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CI 47330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD

Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments and teaching students who struggle as readers and writers. Prerequisite: Admission to advanced study.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture



Department: Teaching, Learning and Curriculum Studies

CI 47501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES

Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards. Prerequisite: Advanced standing, minimum C (2.0) in MATH 14001 or 14002. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 47502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES

Addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. In addition students examine how to best align science practice to state and national standards. Prerequisite: Admission to advanced study. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 47503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES

Addresses pedagogical content knowledge for the teaching and learning of social studies in grades k-9, based on the national content and process standards. Prerequisite: Admission to advanced study. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 47504 TEACHING READING AND WRITING IN MIDDLE GRADES

Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades 4-9, based on the national content and process standards. Prerequisite: Admission to advanced study. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 50093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION

Variable topic workshop designed to respond to curriculum trends and issues, and specialized needs. Prerequisite: Graduate standing and special approval. 1.000 TO 5.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

CI 50095 SPECIAL TOPICS: SEMINAR/WORKSHOP IN CURRICULUM AND INSTRUCTION

Special topic: seminar workshop for international baccalaureate program. Prerequisite: Graduate standing. 1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 53093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT

Workshop in exercise, leisure and sport studies topics vary. Repeated registration permitted. Maximum 4 hours may be applied to degree. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

CI 55015 PSYCHOLOGY OF COACHING

Factors affecting athletic performance emphasizing skill, motivation, personality and practice conditions. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 55020 CONTEMPORARY ATHLETIC COACHING

A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 55051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS

Approaches to teaching in elementary school physical education. Focusing on sequential curriculum development and on learning outcomes in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 55053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT

Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Teaching, Learning and Curriculum Studies

CI 55058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS

Approaches to teaching in secondary school physical education. Focus on sequential curriculum development and on learning outcomes in three domains. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Teaching, Learning and Curriculum Studies

CI 55059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT

Introduction and development of content, management and organizational skills related to sports and activities utilized in secondary school physical education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Teaching, Learning and Curriculum Studies

CI 57330 READING AND WRITING IN ADOLESCENCE/ADULTHOOD

Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments,



and teaching students who struggle as readers and writers. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 57501 TEACHING MATHEMATICS IN EARLY AND MIDDLE GRADES

This course addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 57502 SCIENCE TEACHING IN EARLY AND MIDDLE GRADES

This course addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. In addition students will examine how to best align science practice to state and national standards. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 57503 TEACHING SOCIAL STUDIES IN EARLY AND MIDDLE GRADES

This course addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 57504 TEACHING READING AND WRITING IN MIDDLE GRADES

Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades K-9, based on the national content and process standards. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing and special approval.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Teaching, Learning and Curriculum Studies

CI 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: CI 60199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Teaching, Learning and Curriculum Studies

CI 61125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION

This course will provide an overview of historical trends and contemporary issues in social studies education. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 61126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING

During this course students will examine, discuss and study research in the teaching and learning of social studies as well as develop their own study of social studies teaching and learning. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 61127 TECHNOLOGY AND SOCIAL STUDIES

Course provides experiences with and study of various uses of technology in social studies teaching and learning. During the course we will examine implications and effects of technology on student learning, teaching and society as a whole. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 61130 MULTICULTURAL EDUCATION: STRATEGIES

Teachers will be provided with knowledge and strategies for teaching children to function effectively in a pluralistic society. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 61133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE

New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 61134 RESEARCH TRENDS IN SCIENCE EDUCATION

Course in issues relating to research methods pertinent to science education. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 61140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION

This course provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory, classroom practice and research are explored. Topics examined include, race and gender in science education, teaching the culture of science and teaching science in a global context. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 61141 NATURE OF SCIENCE IN SCIENCE EDUCATION

Course in issues relating to the nature of science as it impacts science education. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 61142 HISTORY AND INQUIRY IN SCIENCE EDUCATION

This course will investigate the continuing debate for what counts as science and how that vision has been represented throughout history. The impacts of the political, economic and societal factors on the nature of scientific inquiry will also be discussed within a historical context. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Teaching, Learning and Curriculum Studies

CI 63193 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT

Workshop in exercise, leisure and sport topics vary. Repeated registration permitted. Maximum 4 hours applied to the degree. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Teaching, Learning and Curriculum Studies

CI 65007 MOTOR SKILL ACQUISITION AND PERFORMANCE

Examination of contemporary motor learning and control theories and laboratory experiences, with emphasis upon motor skill acquisition and performance as studied experimentally. Laboratory included.

Prerequisite: ELS 6/75030 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 65043 SUPERVISION PROCESSES IN SPORT PEDAGOGY

A course designed to enhance ability to develop more effective teaching/learning environments through the use of systematic observation and application of supervisory theory. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 65044 PEDAGOGICAL ANALYSIS OF PHYSICAL EDUCATION AND SPORT

An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 65055 CURRICULUM DEVELOPMENT IN SPORT PEDAGOGY

The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 65392 ADVANCED PRACTICUM IN PHYSICAL EDUCATION

A sixteen week practicum, in K-12 physical education, combining full-time student teaching and student teaching seminar.

Eight weeks student teaching at the pre-department to fifth grade level and eight weeks at the sixth to twelfth grade level.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/ internship will take place.

Prerequisite: Special approval and graduate standing.

10.000 Credit hours

10.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Teaching, Learning and Curriculum Studies

CI 65592 INTERNSHIP IN MOTOR DEVELOPMENT

Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment individualizations task analysis. Maximum of 6 hours applies to degree.

Repeat registration permissible.

Prerequisite: Special approval and graduate standing.

1.000 TO 12.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 65692 INTERNSHIP IN ATHLETIC COACHING

Supervised experience in organized sport focused upon the duties of a coach; can be at one or more levels (youth school college professional) and sports. A focus on the philosophy skills strategies and tactics of coaching within contemporary society.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/ internship will take place.

Prerequisite: Graduate standing and special approval.

2.000 TO 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Teaching, Learning and Curriculum Studies

CI 67001 FUNDAMENTALS OF CURRICULUM

Orientation to the curriculum field.

Theoretical examination of foundations,

elements, design and development of Department, college and non-department curricula. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 67002 CURRICULUM LEADERSHIP

This course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal.

Prerequisite: CI 67001; graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 67003 TEACHER EDUCATION

This course is designed to provide a broad overview of teacher education, including curriculum, organization, governance and policy. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 67004 PROFESSIONAL DEVELOPMENT IN TEACHING

This course is designed to provide a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 67005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING

Increasing intercultural interaction in Departments and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge. Addresses teaching and learning in the intercultural K-16 context.

Prerequisites: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies



CI 67007 CRITICAL REFLECTION IN CURRICULUM AND INSTRUCTION

Capstone course for a master's degree in curriculum and instruction. Students critique their content area studies with reference to the standard of curriculum-based pedagogy. Three concepts inform this critique: continuing professional development, multicultural education, curriculum leadership for reform and renewal. Prerequisite: CI 67001 and graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67010 CURRICULUM EVALUATION

Students will focus on designing program evaluation related to assessment, development and implementation of curricula, critique national and local curricular programs, apply elements of evaluation models. Prerequisite: CI 6/77001. Graduate Standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67091 SEMINAR IN CURRICULUM AND INSTRUCTION

A wide range of topics for advanced graduate inquiry. Normally a balance of theoretical study and creative application. Prerequisite: Instructor's special approval and graduate standing.
1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Teaching, Learning and Curriculum Studies

CI 67092 ADVANCED PRACTICUM AND INTERNSHIP IN CURRICULUM AND INSTRUCTION

Advanced practicum in curriculum and instruction. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing and special approval.
1.000 TO 10.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION

Specialized offerings in response to emerging or selected program needs in curriculum design, development and

implementation. Prerequisite: Graduate standing and special approval.

1.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. Prerequisite: Graduate standing and special approval.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

CI 67098 RESEARCH IN CURRICULUM AND INSTRUCTION

Students pursue an individualized research project on a specialized topic with approval and under direction of instructor. Prerequisite: Graduate standing and special approval.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Teaching, Learning and Curriculum Studies

CI 67105 IMPROVING CLASSROOM INSTRUCTION

Emphasizes motivation, varied materials and methods, individual needs and sources of teacher help. Class members define goals and means. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES

History, philosophy, curriculum and organization of Departments serving children ages 8- 15. Emphasis on development of programs and curriculum that are responsive to the needs of early adolescents. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67108 TEACHING AND LEARNING IN THE MIDDLE GRADES

Pedagogical theories and practices; approaches to instruction, relationship of teaching to learning and development for

children ages 8 15. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67224 TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS

The purpose is to develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Further to develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67225 RESEARCH IN MATHEMATICS EDUCATION

Current research theory, methodology and results in mathematics education will be investigated. Implications for instructional practice and curriculum design will be examined. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD

Instructional psychology and materials including technology for the effective teaching of mathematics in grade three through eight with a theoretical emphasis on cognitive development. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67227 ASSESSMENT IN MATHEMATICS EDUCATION

Investigation of standards and practices in mathematical assessments as recommended by NCTM and current research. Prerequisite: Completion of 2 of the following: ADED 52267, CI 67224, CI 67226 or ECED 50147. Graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

**CI 67228 INTERVENTION IN MATHEMATICS INSTRUCTION**

Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics. Prerequisite: Completion of 2 of the following: ADED 52267, CI 67224, CI 67226 or ECED 50147. Graduate standing. 2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67240 INTRODUCTION TO ENVIRONMENTAL EDUCATION

Survey course emphasizes current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67292 CLINICAL PRACTICUM IN MATHEMATICAL ASSESSMENT

Experience in designing and administering both formal and informal assessments. Prerequisite: Completion of 2 of the following: ADED 52267, CI 67224, CI 67226 or ECED 50147. Graduate standing. 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CI 67310 THEORY AND PRACTICE IN THE TEACHING OF READING

Nature and development of reading, approaches to instruction, relation to learning and development. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67311 INTEGRATED LANGUAGE ARTS INSTRUCTION

Issues and trends in instruction in listening and in oral and written expression. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67312 TEACHING WRITING AS A PROCESS

Emphasizes a process approach to writing instruction in grades K through 12. Examines the steps and studies of composing, evaluation and components of a school wide program. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67314 SURVEY OF YOUNG ADULT LITERATURE

Presents a survey of selected types of literature appropriate for students in middle Department, junior high and high Department. Emphasis on evaluating, selecting and teaching. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67315 SURVEY OF CHILDREN'S LITERATURE

Wide reading in children's literature, with particular application to school curriculum and field of reading. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67316 CRITICISM OF CHILDREN'S LITERATURE

A critical study of outstanding children's literature from early times to present. Prerequisite: CI 677315. Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67318 TEACHING DRAMA IN THE CLASSROOM

Presents an in-depth survey of selected types of drama appropriate for elementary and middle school children. Theory and practice are emphasized. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67319 DIAGNOSIS AND REMEDIATION IN READING

Theory and application of diagnostic principles and remedial reading approaches

with Department-age children. Cultural, linguistic, cognitive and affective factors in diagnosing and remediating reading problems. Prerequisite: CI 677310. Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67320 TEACHER AS LITERACY RESEARCHER

Capstone experience in master's program in literacy in which students pursue an individualized literacy research program. Prerequisite: EVAL 65510 or EVAL 65511 or CI 67351 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67323 CLINICAL PRACTICUM IN CORRECTIVE READING

Application of previous courses includes supervised diagnostic/prescriptive reading work with Department-age pupils and diagnostic/remedial reporting. Prerequisite: CI 67319. Graduate standing. 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CI 67330 READING IN CONTENT AREAS

Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through postsecondary years. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67331 LITERACY LEARNING IN EARLY YEARS

Emphasizes developmental nature of literacy learning in pre-department and primary grades; provides techniques for establishing effective reading and writing programs for young children. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67333 BLACK WOMEN AND LITERACY

This graduate level course is designed to support inquiry into literacy and its implications for women from the African diaspora. Several aspects of literacy will be



considered i.e. verbal, visual and graphic. Questions will be raised about the implications of these forms of literacy for black women in different geographical locations. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67337 THEORY AND PRACTICE OF TEACHING LITERATURE-SECONDARY AND COLLEGE

This course provides a rationale for and means of relating literary theory to classroom practice and pedagogical research. For secondary and post secondary English teachers. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67338 TEACHING BASIC WRITERS-SECONDARY AND COLLEGE

Current theory and practices for teaching linguistically diverse writers at the secondary and post-secondary levels. Foundations for teaching language in the context of writing. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67339 WRITING ASSESSMENT AND RESPONSE

Exploration of issues in writing assessment, theoretical base for effective formative response to student writing and design, and implementation of writing assessment measures. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67345 ORGANIZATION AND SUPERVISION OF READING PROGRAMS

Background and strategies for organizing and supervising reading programs. Emphasis on the state of the field roles and responsibilities and current issues. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67350 COLLEGE/ADULT READING INSTRUCTION

Reading strategies for teachers of adult learners with emphasis on the role of the teacher and the development of programs. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67351 PERSPECTIVES ON LITERACY RESEARCH

Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy. Prerequisite: Reading specialization (READ) major and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67352 LITERACY COACHING

Focus on principles and strategies related to literacy coaching p--adult, within classrooms, Departments and districts. Prerequisite: CI 67310 or 77310; and 67319 or 77319; and 67323 or 77323; and 67330 or 77330; and MCED 50005 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67392 ADVANCED PRACTICUM AND INTERNSHIP IN READING

Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing and special approval. 1.000 TO 10.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67395 SPECIAL TOPICS IN READING

Specialized offerings in response to emerging or selected program needs in reading. Prerequisite: Graduate standing and special approval. 1.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 67396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. Prerequisite: Graduate standing and special approval. 1.000 TO 5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

CI 67517 NEW LITERACIES IN PRACTICE

Developing technologies are changing the very definition of "literacy." Designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as "new literacies" Participants of the class follow their own paths of inquiry related to the question: How is our definition of "literacy" changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as "new literacies," "multiliteracies," and "arts-based knowing" to name a few) as well as encounter such "nuts and bolts" information as how to set up a blog or a wiki and basics of video editing. Appropriate for any educator who is interested in examining how "new literacies" are transforming our classrooms. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 67592 PRACTICUM MATH INTERVENTION

Practicum in Math Intervention. Prerequisites: Choose 2 of 4: ADED 52267, CI 67224 and 67226, ECED 50147. Graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CI 67791 SEMINAR IN MATHEMATICS EDUCATION

An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education will be conducted. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Teaching, Learning and Curriculum Studies

**CI 70093 VARIABLE TITLE WORKSHOP IN CURRICULUM AND INSTRUCTION**

Variable topic workshop designed to respond to curriculum trends and issues, and specialized needs. Prerequisite: Doctoral standing and special approval. 1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

CI 71125 ISSUES AND TRENDS IN SOCIAL STUDIES EDUCATION

This course will provide an overview of historical trends and contemporary issues in social studies education. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 71126 RESEARCH IN SOCIAL STUDIES TEACHING AND LEARNING

During this course students will examine, discuss and study research in the teaching and learning of social studies as well as develop their own study of social studies teaching and learning. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 71127 TECHNOLOGY AND SOCIAL STUDIES

Course provides experiences with and study of various uses of technology in social studies teaching and learning. During the course we will examine implications and effects of technology on student learning teaching and society as a whole. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 71130 MULTICULTURAL EDUCATION: STRATEGIES

Teachers will be provided with knowledge and strategies for teaching children to function effectively in a pluralistic society. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 71133 ISSUES AND TRENDS IN ELEMENTARY SCIENCE

New discoveries in science, including issues in society with direct science

content. Emphasis is on practical and simple classroom applications. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 71134 RESEARCH TRENDS IN SCIENCE EDUCATION

Course in issues relating to research methods pertinent to science education. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 71140 CULTURE AND MULTICULTURALISM IN SCIENCE EDUCATION

This course provides a general introduction to the impacts of multiculturalism and the social studies of science on science education. Implications for science educational curriculum theory classroom practice and research are explored. Topics examined include race and gender in science education teaching the culture of science and teaching science in a global context. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 71141 NATURE OF SCIENCE IN SCIENCE EDUCATION

Course in issues relating to the nature of science as it impacts science education. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 71142 HISTORY OF INQUIRY IN SCIENCE EDUCATION

This course will investigate the continuing debate for what counts as science and how that vision has been represented throughout history. The impacts of the political economic and societal factors on the nature of scientific inquiry will also be discussed within a historical context. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 75007 MOTOR SKILL ACQUISITION AND PERFORMANCE

Examination of contemporary motor learning and control theories and laboratory experiences, with emphasis upon motor skill acquisition and performance as studied experimentally. Laboratory included. Prerequisite: ELS 6/75030 and doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 75043 SUPERVISION PROCESSES IN SPORT PEDAGOGY

A course designed to enhance the ability to develop more effective teaching/learning environments through the use of systematic observation and application of supervisory theory. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 75592 INTERNSHIP IN MOTOR DEVELOPMENT

Supervised and supervisory experiences in motor development for all ages and abilities, including conceptual bases for assessment individualizations task analysis. Maximum of 6 hours applies to degree. Prerequisite: Special approval and doctoral standing. 1.000 TO 12.000 Credit hours
7.000 TO 84.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CI 77001 FUNDAMENTALS OF CURRICULUM

Orientation to the curriculum field. Theoretical examination of foundations elements design and development of school college and non school curricula. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77002 CURRICULUM LEADERSHIP

Explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal. CI 77001 or compatible professional experience with fundamentals of curriculum work is recommended. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77003 TEACHER EDUCATION

This course is designed to provide a broad overview of teacher education, including curriculum, organization, governance and policy. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77004 PROFESSIONAL DEVELOPMENT IN TEACHING

This course is designed to provide a broad overview and conceptual framework for professional development; its historical, cultural, psychological and social contexts. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77005 INTERCULTURAL DIMENSIONS OF TEACHING AND LEARNING

Increasing intercultural interaction in Departments and communities across the nation and around the world are prompting educational changes in terms of what is being taught and how it is being taught. Educators at all levels are increasingly being called upon to enhance their own intercultural competence and to consider how best to translate this to students in their charge. Addresses teaching and learning in the intercultural K-16 context. Prerequisites: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77010 CURRICULUM EVALUATION

Students will focus on designing program evaluation related to assessment, development and implementation of curricula, critique national and local curricular programs, apply elements of evaluation models. Prerequisite: CI 6/77001. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77092 ADVANCED PRACTICUM IN CURRICULUM AND INSTRUCTION

Supervised program in curriculum design, development and/or implementation. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation

and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing. Special approval.
1.000 TO 10.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77095 SPECIAL TOPICS IN CURRICULUM AND INSTRUCTION

Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation. Prerequisite: Doctoral standing and special approval.
1.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77096 INDIVIDUAL INVESTIGATION IN CURRICULUM AND INSTRUCTION

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. Prerequisite: Doctoral standing and special approval.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

CI 77105 IMPROVING CLASSROOM INSTRUCTION

Emphasizes motivation, varied materials and methods individual needs and sources of teacher help. Class members define goals and means. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77107 CURRICULUM AND ORGANIZATION IN THE MIDDLE GRADES

History, philosophy, curriculum and organization of Departments serving children ages 8- 15. Emphasis on development of programs and curriculum that are responsive to the needs of early adolescents. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77108 TEACHING AND LEARNING IN THE MIDDLE GRADES

Pedagogical theories and practices; approaches to instruction, relationship of teaching to learning and development for children, ages 8-15. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77224 TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS

The purpose is to develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Further to develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77225 RESEARCH IN MATHEMATICS EDUCATION

Current research theory, methodology and results in mathematics education will be investigated. Implications for instructional practice and curriculum design will be examined. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77226 IMPROVING MATHEMATICS INSTRUCTION IN MIDDLE CHILDHOOD

Instructional psychology and materials including technology for the effective teaching of mathematics in grade three through eight with a theoretical emphasis on cognitive development. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77227 ASSESSMENT IN MATHEMATICS EDUCATION

Investigation of standards and practices in mathematical assessments as recommended by NCTM and current research. Prerequisite: Completion of 2 of the following: ADED 52267, CI 67224, CI 67226, or ECED 50147. Doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Teaching, Learning and Curriculum Studies

CI 77228 INTERVENTION IN MATHEMATICS INSTRUCTION

Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics. Prerequisite: Completion of 2 of the following: ADED 52267, CI 67224, CI 67226, or ECED 50147. Doctoral standing. 2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77240 INTRODUCTION TO ENVIRONMENTAL EDUCATION

Survey course emphasizing current debates in environmental issues, exploring the interconnectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77292 CLINICAL PRACTICUM IN MATHEMATICAL ASSESSMENT

Experience in designing and administering both formal and informal assessments. Prerequisite: Completion of 2 of the following: ADED 52267, CI 67224, CI 67226, or ECED 50147. Doctoral standing. 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CI 77310 THEORY AND PRACTICE IN THE TEACHING OF READING

Nature and development of reading, approaches to instruction, relation to learning and development. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77311 INTEGRATED LANGUAGE ARTS INSTRUCTION

Issues and trends in instruction in listening and in oral and written expression. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 77312 TEACHING WRITING AS A PROCESS

Emphasizes a process approach to writing instruction in grades K through 12. Examines the steps and studies of composing evaluation and components of a Department-wide program. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77314 SURVEY OF YOUNG ADULT LITERATURE

Presents a survey of selected types of literature appropriate for students in middle Department, junior high and high Department. Emphasis on evaluating, selecting and teaching. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77315 SURVEY OF CHILDREN'S LITERATURE

Wide reading in children's literature, with particular application to school curriculum and field of reading. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77316 CRITICISM OF CHILDREN'S LITERATURE

A critical study of outstanding children's literature from early times to present. Prerequisite: CI 677315. Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77318 TEACHING DRAMA IN THE CLASSROOM

Presents an in-depth survey of selected types of drama appropriate for elementary and middle school children. Theory and practice are emphasized. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77319 DIAGNOSIS AND REMEDIATION IN READING

Theory and application of diagnostic principles and remedial reading approaches with Department-age children. Cultural linguistic cognitive and affective factors in diagnosing and remediating reading problems. Prerequisite: CI 677310. Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77323 CLINICAL PRACTICUM IN CORRECTIVE READING

Application of previous courses includes supervised diagnostic/prescriptive reading work with Department-age pupils and diagnostic/remedial reporting. Prerequisite: CI 67319. Doctoral standing. 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CI 77330 READING IN CONTENT AREAS

Information and competencies for improving students' reading and studying in the content areas. Focus on intermediate grades through postsecondary years. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77331 LITERACY LEARNING IN EARLY YEARS

Emphasizes developmental nature of literacy learning in preschool and primary grades; provides techniques for establishing effective reading and writing programs for young children. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77333 BLACK WOMEN AND LITERACY

This graduate level course is designed to support inquiry into literacy and its implications for women from the African diaspora. Several aspects of literacy will be considered i.e. verbal, visual, and graphic. Questions will be raised about the implications of these forms of literacy for black women in different geographical locations. Prerequisite: Doctoral standing and special approval from instructor. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate



Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77337 THEORY AND PRACTICE IN TEACHING LITERATURE-SECONDARY AND COLLEGE

This course provides a rationale for and means of relating literary theory to classroom practice and pedagogical research. For secondary and post secondary English teachers. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77338 TEACHING BASIC WRITERS-SECONDARY AND COLLEGE

Current theory and practices for teaching linguistically diverse writers at the secondary and post-secondary levels. Foundations for teaching language in the context of writing. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77339 WRITING ASSESSMENT AND RESPONSE

Exploration of issues in writing assessment, theoretical base for effective formative response to student writing, and design and implementation of writing assessment measures. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77345 ORGANIZATION AND SUPERVISION OF READING PROGRAMS

Background and strategies for organizing and supervising reading programs. Emphasis on the state of the field, roles and responsibilities and current issues. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77350 COLLEGE/ADULT READING INSTRUCTION

Reading strategies for teachers of adult learners with emphasis on the role of the teacher and the development of programs. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 77351 PERSPECTIVES ON LITERACY RESEARCH

Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy. Prerequisite: Curriculum and instruction (CI) major and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77352 LITERACY COACHING

Focus on principles and strategies related to literacy coaching, p--adult, within classrooms, Departments and districts. CI 67310 or 77310; and 67319 or 77319; and 67323 or 77323; and 67330 or 77330; and MCED 50005 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77392 ADVANCED PRACTICUM AND INTERNSHIP IN READING

Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing and special approval.
1.000 TO 10.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77395 SPECIAL TOPICS IN READING

Specialized offerings in response to emerging or selected program needs in reading. Prerequisite: Doctoral standing and special approval.
1.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 77396 INDIVIDUAL INVESTIGATION IN READING AND LANGUAGE ARTS

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. Prerequisite: Doctoral standing and special approval.
1.000 TO 5.000 Credit hours

5.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

CI 77592 PRACTICUM MATH INTERVENTION

Practicum in Math Intervention. Prerequisites: ADED 52267, CI 67224 and 67226, ECED 50147. Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CI 77791 SEMINAR IN MATHEMATICS EDUCATION

An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education will be conducted. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Teaching, Learning and Curriculum Studies

CI 80089 RESIDENCY I

Beginning doctoral seminar. Students begin to explore the field of curriculum and instruction by reading and discussing foundational and current theories and research in the field. Students will begin to identify and explore their research interests in the field. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 80090 RESIDENCY II

Advanced doctoral seminar. This will be a structured opportunity for students to synthesize research from the field, explore research options for their dissertation study, review literature for their research studies and discuss the development of their research. Prerequisite: CI 80089; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CI 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation



Department: Teaching, Learning and Curriculum Studies

CI 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: Doctoral standing; CI 80199.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Teaching, Learning and Curriculum Studies

CI 87000 THEORY AND RESEARCH IN TEACHING

Focuses on critical study of contrasting approaches to the study of teaching processes. Surveys issues to give students a more critical perspective and to provoke thought about the relationship among theory research and practice. Required of Curriculum and Instruction Ph.D. students. Prerequisite: Doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 87001 THEORY AND RESEARCH IN CURRICULUM

Focuses on historic and contemporary examples of curriculum theory and their application in curriculum design, development and evaluation. Examines modes of inquiry used by curriculum researchers and contemporary curriculum issues. Required of CI Ph.D students.

Prerequisite: CI 6/77001. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 87002 FORMS OF INQUIRY IN CURRICULUM AND INSTRUCTION

Introduction to the history, context, philosophy and ethics of inquiry in curriculum and instruction. Emphasis on acquainting Curriculum and Instruction doctoral students with faculty lines of inquiry and research foci while preparing doctoral students for critical consumption of and significant contribution to inquiry in curriculum and instruction. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Teaching, Learning and Curriculum Studies

CI 87091 SEMINAR IN CURRICULUM AND INSTRUCTION

A wide range of topics for advanced graduate inquiry. Normally a balance of

theoretical study and creative application.

Prerequisite: Doctoral standing and

instructor's special approval.

1.000 TO 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Teaching, Learning and Curriculum Studies

CI 87098 RESEARCH IN CURRICULUM AND INSTRUCTION

Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

Prerequisite: Doctoral standing and special approval.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Teaching, Learning and Curriculum Studies

CI 87340 RESEARCH IN READING

An introduction to a perspective on psychological processes underlying levels of reading from pre-reading to mature reading with implications for instruction.

Prerequisite: Doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 87342 SEMINAR IN READING AND LANGUAGE

Exploration of some of the issues, methods and findings on the relationship of reading and language. Examination of selected issues such as dialect bilingualism readability language based-strategies for reading instruction. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 87343 RESEARCH IN TEACHING OF WRITING

Issues and methodologies in research in the teaching of writing. Students will review the literature and conduct research in a significant area of writing instruction.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 87391 SEMINAR IN READING

Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice. Prerequisite: Doctoral standing and special approval.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Teaching, Learning and Curriculum Studies

CI 87398 RESEARCH IN READING AND LANGUAGE ARTS

Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

Prerequisite: Doctoral standing and special approval.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Teaching, Learning and Curriculum Studies

CI 87517 NEW LITERACIES IN PRACTICE

Developing technologies are changing the very definition of "literacy." Course designed to provide an overview of current (and past) theory and practices related to the growing line of inquiry known as "new literacies." Participants of the class follow their own paths of inquiry related to the question: How is our definition of "literacy" changing? Participants engage in discussions of theoretical positions related to this question (from perspectives as "new literacies," "multiliteracies," and "arts-based knowing" to name a few) as well as encounter such "nuts and bolts" information as how to set up a blog or a wiki and basics of video editing. Appropriate for any educator who is interested in examining how "new literacies" are transforming our classrooms. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

CI 87791 DOCTORAL SEMINAR IN MATHEMATICS EDUCATION

Doctoral Seminar in Math Education.

Prerequisites: Doctoral standing and CI major and special approval from instructor.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Teaching, Learning and Curriculum Studies

Classics (CLAS)

CLAS 21201 ENGLISH WORDS FROM CLASSICAL ELEMENTS

Building of English vocabulary through study of basic roots from Latin and Greek; prefixes, suffixes, rules for accent and pronunciation; specialized scientific and legal terminology. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate



Schedule Types: Lecture
Department: Modern and Classical
Language Studies

CLAS 21404 THE GREEK ACHIEVEMENT

A survey of the cultural achievements of the ancient Greeks as manifested in their poetry, philosophy, history and art from the Homeric period through the New Testament. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Diversity Course-Global, Kent Core-Humanities, Transfer Module-Humanities

CLAS 21405 THE ROMAN ACHIEVEMENT

A survey of the cultural achievements of the ancient Romans as manifested in their literature and art from the Etruscans through the Christians. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Diversity Course-Global, Kent Core-Humanities, Transfer Module-Humanities

CLAS 21406 SPORT AND ANCIENT DAILY LIFE

Investigation of the development of combat sports in the ancient world and the culture in which they evolved. Also emphasized is the development from amateur athletics in the Greek world to the Roman professional gladiators and charioteers. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

CLAS 40793 VARIABLE TITLE WORKSHOP IN CLASSICS

Workshops individually designed to provide instruction and training in specific areas of classical studies. Prerequisite: Departmental permission.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Modern and Classical
Language Studies

CLAS 41006 ROMAN HISTORY

A survey of Roman history from its beginnings to the fall of the Roman Empire. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Modern and Classical
Language Studies

CLAS 41092 FIELD EXPERIENCE IN CLASSICS

Travel-based study/field experience in Classics at a site or sites away from Kent State University under the supervision of members of the Classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites which pertain to Classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other sites and participation in an archaeological field Department. The course may be repeated if the destination differs for a maximum of 7 credit hours. Prerequisite: none.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Modern and Classical
Language Studies

CLAS 41095 SPECIAL TOPICS IN CLASSICS

Topic announced in the schedule of classes. Repeatable for a total of 6 credit hours. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

CLAS 41096 INDIVIDUAL INVESTIGATION

(Repeatable for a total of 9 hours) investigation of problems in archaeology, mythology and ancient comparative literature. Prerequisite: Departmental permission.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Modern and Classical
Language Studies

CLAS 41097 COLLOQUIUM IN CLASSICS

Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: Modern and Classical
Language Studies

CLAS 41301 CLASSICAL MYTHOLOGY

Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature. Prerequisite: Sophomore standing.
3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

CLAS 41401 GREEK ARCHAEOLOGY AND ART

Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

CLAS 41402 ROMAN ARCHAEOLOGY AND ART

Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

CLAS 41503 GREEK LITERATURE IN TRANSLATION

Major works of Greek literature, studied in their historical context and by genre knowledge of Greek is not required. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Writing Intensive Course

CLAS 50793 VARIABLE TITLE WORKSHOP IN CLASSICS

Workshops individually designed to provide instruction and training in specific areas of classical studies. Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Modern and Classical
Language Studies

CLAS 51006 ROMAN HISTORY

A survey of Roman history from its beginnings to the fall of the Roman Empire. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**CLAS 51092 FIELD EXPERIENCE IN CLASSICS**

Travel-based study/field experience in Classics at a site or sites away from Kent State University under the supervision of members of the Classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites which pertain to Classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field Department. The course may be repeated if the destination differs for a maximum of 7 credit hours. Prerequisite: graduate standing.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Graduate

Schedule Types: Field Experience

Department: Modern and Classical

Language Studies

CLAS 51095 SPECIAL TOPICS IN CLASSICS

Topic announced in the schedule of classes. Repeatable for a total of 6 credit hours. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

CLAS 51097 COLLOQUIUM IN CLASSICS

Detailed study of an aspect of antiquity that engages issues of current interest, for example women in antiquity, ancient Christianity, multiculturalism in antiquity. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: Modern and Classical

Language Studies

CLAS 51301 CLASSICAL MYTHOLOGY

Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

CLAS 51401 GREEK ARCHAEOLOGY AND ART

Introduction to archaeology of the Greek world with emphasis on recent discoveries and their impact on the study of Greek art, architecture and sculpture through the Hellenistic period. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

CLAS 51402 ROMAN ARCHAEOLOGY AND ART

Introduction to archaeology of the Roman world with emphasis on recent discoveries and their impact on the study of Etruscan and Roman art, architecture and sculpture through the Imperial period. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

CLAS 51403 ROMAN CIVILIZATION

Extensive reading and reporting on phases of Roman public and private life.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

CLAS 51503 GREEK LITERATURE IN TRANSLATION

Major works of Greek literature studied in their historical context and by genre; knowledge of Greek not required.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Clinical Laboratory Sciences (CLS)**CLS 49010 CLINICAL MICROBIOLOGY:THEORY**

Theoretical consideration of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms. Prerequisite: Medical technology (MEDT) major.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49011 CLINICAL MICROBIOLOGY: APPLICATIONS

Applied and practical considerations of the theoretical aspects of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms. Letter grades and ip. Prerequisite: Medical technology (MEDT) major.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49012 CLINICAL IMMUNOLOGY: THEORY

Theoretical considerations of laboratory practices involving quantitation and detection of antigens and antibodies and the significance of these findings in pathological states. Prerequisite: Medical technology (MEDT) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49013 CLINICAL IMMUNOLOGY: APPLICATIONS

Applied and practical consideration of laboratory practices in immunology and serology relating to diagnosis of disease states. Prerequisite: Medical technology (MEDT) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49014 CLINICAL MYCOLOGY: THEORY AND APPLICATIONS

Theoretical, applied and practical consideration of the isolation, identification and characterization of pathogenic fungi and their relation to human disease states. Prerequisite: Medical technology (MEDT) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49015 CLINICAL PARASITOLOGY: THEORY AND APPLICATIONS

Theoretical, applied and practical considerations of the isolation identification and characterization of human parasites and their relations to pathologic conditions. Prerequisite: Medical technology (MEDT) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49020 CLINICAL CHEMISTRY: THEORY

Theoretical considerations of the principles of clinical chemistry relating to the identification and quantitation of biologically important substances in blood and other body fluids. Prerequisite: Medical technology (MEDT) major.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49021 CLINICAL CHEMISTRY: APPLICATIONS

Applied and practical considerations of clinical chemistry principles relating to significant changes in body fluids as the



result of pathologic conditions. Prerequisite: Medical technology (MEDT) major.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49022 URINALYSIS: THEORY

Theoretical considerations of the physiological activities of the renal system together with laboratory principles of analysis of urine and other body fluids.

Prerequisite: Medical technology (MEDT) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49023 URINALYSIS: APPLICATIONS

Applied and practical considerations of laboratory practices in urine and other body fluid analysis as aids in diagnosis of disease. Prerequisite: Medical technology (MEDT) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49030 IMMUNOHEMATOLOGY: THEORY

Theoretical consideration of laboratory procedures involved in blood grouping and typing; identification of blood group antigens and antibodies collection and preparation of blood for transfusion. Prerequisite: Medical technology (MEDT) major.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49031 IMMUNOHEMATOLOGY: APPLICATIONS

Applied and practical consideration of laboratory methods for the administration of blood and its components. Prerequisite: Medical technology (MEDT) major.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49032 COAGULATION: THEORY AND APPLICATIONS

Theoretical consideration of the coagulation mechanism and its relation to pathological states; identification of abnormalities and deficiencies. Prerequisite: Medical technology (MEDT) major.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49033 CLINICAL HEMATOLOGY: THEORY

Theoretical considerations of the development of formed elements; identification of marrow and blood cells; study of normal and abnormal cellular blood components. Prerequisite: Medical technology (MEDT) major.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49034 CLINICAL HEMATOLOGY: APPLICATIONS

Applied and practical consideration of laboratory methods and procedures in identification and enumeration of normal and abnormal formed elements of blood. Prerequisite: Medical technology (MEDT) major.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49040 TOPICS IN LABORATORY MANAGEMENT

Consideration of topics relating to safety, education, personnel, budgeting, scheduling and medical legal problems. Repeatable for a total of 4 hours.

Prerequisite: Medical technology (MEDT) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

CLS 49095 SPECIAL TOPICS IN MEDICAL TECHNOLOGY

Topical consideration of special techniques encountered in nuclear medicine, cytology, cytogenetics, virology, toxicology and special instrumentation. Repeatable for a total of 4 hours. Prerequisite: Medical technology (MEDT) major.

1.000 TO 4.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

Communication Studies (COMM)

COMM 15000 INTRODUCTION TO HUMAN COMMUNICATION

An inquiry into the nature and function of human communication in interpersonal, group and public contexts. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

Course Attributes: Kent Core-Additional, TAG Communication, Transfer Module-Composition

COMM 20000 FOUNDATIONS OF COMMUNICATION

The foundations of communication studies course serves as an introduction to the major. Provides an introduction to communication studies faculty, research and the major concentrations of the Department; highlights possible careers in communication studies; and introduces possible ways students can supplement curriculum efforts through involvement.

Prerequisite: cumulative 2.0 GPA or better.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Communication Studies

COMM 20001 INTERPERSONAL COMMUNICATION

Introduction to human interpersonal communication. Components and structures situations and contexts are described non-evaluative focus with emphasis on informal experience.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

Course Attributes: TAG Communication

COMM 21000 COMMUNICATION GRAMMAR REVIEW

Designed to increase grammar, punctuation, spelling and syntax skills and proficiency. Students must earn a grade of C (2.0) or better in this course to fulfill the grammar requirement. If they fail to earn a C (2.0) or better in COMM 21000 after three attempts, they are not permitted to continue in the communication studies (COMM) program. Does not count toward communication studies (COMM) course requirements. Prerequisite: none.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 25454 INTERCOLLEGIATE FORENSICS I

(Repeatable for a total of 8 credit hours) practicum in intercollegiate forensics for freshmen, sophomores and beginning forensic students. Maximum 4 credit hours may apply to the communication major requirements. Prerequisite: special approval.

1.000 OR 2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 25464 ARGUMENTATION

Introduction to principles of oral and written argumentation. Prerequisite: COMM 15000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture



Department: Communication Studies

COMM 25851 COMMUNICATION FOR TEACHERS

Principles, skills and responsibilities of oral communication as central to the process of teaching all grades and subjects. Focuses upon speaking and listening with pupils, peers and parents. Prerequisite: Integrated Language Arts (INLA) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 25863 BUSINESS AND PROFESSIONAL COMMUNICATION

Fundamentals of public and conference speaking, conducting meetings, electronic presentations, interviewing and interpersonal relations as applied to business and organizational settings.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 25902 COMMUNICATION THEORY

Study of the process of human communication. Emphasis on source, message, channel and receiver dimensions of communication. Examination of major theories of communication and social influence. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

Course Attributes: TAG Communication

COMM 26000 CRITICISM OF PUBLIC DISCOURSE

A critical examination of selected public speeches representing diverse viewpoints on a variety of historic and contemporary issues, emphasizing methods of evaluating public oral communication and the role of speechmaking in free societies.

Prerequisite: Sophomore standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

Course Attributes: Diversity Course-Domestic, Kent Core-Humanities, Transfer Module-Humanities

COMM 26001 PUBLIC COMMUNICATION IN SOCIETY

Examines communication in public settings. Content includes issues in mass media, political communication and political advertising, news, crisis communication, public opinion, and communication in executive, legislative and judicial settings. Students explore the influence of mediated messages via application of mass

communication theories and constructs.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 26501 INTRODUCTION TO HEALTH COMMUNICATION

Introduction to the roles of communication in health, health and risk behavior, health care, and health promotion, including interpersonal, organizational and media contexts. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 30000 COMMUNICATION RESEARCH METHODS

Introduction to qualitative and quantitative research methods in communication. Students should complete this course early in their program of study. Prerequisite: COMM 25902; cumulative GPA of 2.0 or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 35454 INTERCOLLEGIATE FORENSICS II

(repeatable for a total of 8 hours) advanced practicum in intercollegiate forensics for juniors and seniors with forensics experience. Maximum of 4 hours may apply to the communication major. Prerequisite: Permission.

1.000 OR 2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 35550 SMALL GROUP COMMUNICATION

An examination of group communication in social and family contexts throughout the life-span. Prerequisite: cumulative GPA of 2.0 or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

Course Attributes: TAG Communication

COMM 35600 COMMUNICATION IN SMALL GROUPS AND TEAMS

Focuses on the application and practice of group communication skills and techniques applied to goal-oriented small group situations. The course explores communication theory and research about small groups and teams, relating in group and teams, managing conflict in groups and teams, leadership in groups and teams, and problem-solving in groups and teams.

Prerequisite: cumulative GPA of 2.0 or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 35852 INTERCULTURAL COMMUNICATION

Theory and application of communication between people of different cultures and different national systems. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

Course Attributes: Diversity Course-Global

COMM 35860 INTERVIEWING

Techniques, principles and practical skills for interviews most likely to occur in business environments; job searches and selection interviews, information-gathering interviews, performance appraisals, counseling interviews and persuasive interviews. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 35864 ORGANIZATIONAL COMMUNICATION

Application of communication theory to organizational settings. Exploration of communication structures processes and methods in organizations. Prerequisite: Minimum grade of C (2.0) in COMM 20000; and pass the Grammar Test with a 680 or better or have a minimum grade of C (2.0) in COMM 21000; and a cumulative GPA of 2.0 or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

Course Attributes: Writing Intensive Course

COMM 35912 GENDER AND COMMUNICATION

Examines influence of gender in interpersonal and organizational communication including communication processes in interpersonal violence, STDs and other contemporary social problems. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

Course Attributes: Diversity Course-Domestic

COMM 36501 COMMUNICATION IN HEALTH CARE

Examination of the dynamics of communication in health care settings, including provider-patient interaction, using



communication theory, research and health advocacy skills across a variety of health care contexts. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies

COMM 36505 COMMUNICATION, AGING AND CULTURE

Examination of the roles of aging and culture on human communication.
Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies

COMM 40001 ADVANCED INTERPERSONAL COMMUNICATION

Advanced treatment of interpersonal communication theory and research. Interpersonal principles are applied to group and organizational contexts. Prerequisite: COMM 20001 and minimum grade of C (2.0) in COMM 20000; and pass the Grammar Test with a 680 or better or have a minimum grade of C (2.0) in COMM 21000; and a cumulative GPA of 2.00 or better.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies
Course Attributes: Writing Intensive Course

COMM 41000 SPORTS COMMUNICATION

An examination of the inter-relationship between sports and communication in today's society. Students discuss and examine sports through communication lenses (groups, interpersonal, media/mediated, and organizational). Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies

COMM 42000 MEDIA, WAR AND PROPAGANDA

Examines the influence of TV, movies, and media images of war, the war effort and portrayals of enemies, protesters and anti-war groups on communication research, including mass communication and persuasion. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies

COMM 43000 COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION

Aims to help students develop a critical understanding of diverse newer media and how they are used, and affect human interaction. In achieving this goal, students

are expected to learn how newer media are different from and similar to face-to-face communication or traditional mass media, newer media's social and psychological effects on human interactions, and theoretical frameworks explaining these media. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies

COMM 45006 MEDIA USE AND EFFECTS

The course examines the ways in which communication scholars have conceptualized and analyzed media processes, uses and effects. We explore such issues as media portrayals, news coverage, political campaigns, sex and violence in the media, media entertainment, children and television, and newer communication technologies. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies

COMM 45007 FREEDOM OF SPEECH

Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and socio-legal-rhetorical issues. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies

COMM 45091 SEMINAR IN COMMUNICATION STUDIES

Examination of selected communication topics/areas and related research. Repeatable up to 9 credit hours. Prerequisite: none.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Communication Studies

COMM 45092 INTERNSHIP IN COMMUNICATION STUDIES

A formal, cooperative field experience with a designated organization or agency as designed by the students and the internship coordinator. S/u grades and IP. Prerequisite: cumulative GPA of 2.00 or better; COMM 20000 with a grade of C (2.0) or better; and junior standing.
3.000 TO 6.000 Credit hours
21.000 TO 42.000 Lecture hours
Level: Undergraduate
Schedule Types: Practicum
Department: Communication Studies

COMM 45093 VARIABLE TITLE WORKSHOP IN COMMUNICATION

No more than three credits may be counted as part of the upper-division credits required in the communication major. Prerequisite: None.

1.000 TO 5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Communication Studies

COMM 45095 SPECIAL TOPICS IN COMMUNICATION STUDIES

Offered when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled. Prerequisite: None.
1.000 TO 6.000 Credit hours
1.000 TO 6.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies

COMM 45154 RHETORICAL CRITICISM

Standards of criticism in public discourse and methods for their application in persuasive speaking. This course may be used to satisfy the writing intensive course graduation requirement with approval of major department. Prerequisites: cumulative GPA of 2.0 or better; and COMM 20000 with a minimum grade of C (2.0) or better; and pass the Grammar Test with a score of 680 or better or have a minimum grade of C (2.0) in COMM 21000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies
Course Attributes: Writing Intensive Course

COMM 45196 INDEPENDENT STUDY: COMMUNICATION STUDIES

Readings and/or research on problems approved by undergraduate coordinator in consultation with student's adviser and faculty project director. Prerequisite: cumulative GPA of 2.0 or better; and COMM 20000 with a minimum grade of C (2.0); and junior standing; and special approval.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Communication Studies

COMM 45459 COMMUNICATION AND CONFLICT

Examination of issues related to managing conflict in communication. Critique and synthesis of conceptual approaches and research pertaining to conflict in interpersonal, organizational and public communication settings. Prerequisite: cumulative GPA of 2.0 or better.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Communication Studies

COMM 45807 HIGH IMPACT PROFESSIONAL SPEAKING

Principles and practices of effective communication in a variety of professional contexts. Emphasis on professional presentation skills development.



Prerequisite: COMM 15000 and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 45865 ORGANIZATIONAL COMMUNICATION TRAINING AND DEVELOPMENT

Theory and application of diagnosing communication problems in an organization and the intervention process. Prerequisite: COMM 35864 and a cumulative GPA of 2.0 or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 45902 COMMUNICATION AND INFLUENCE

Explores theories and strategies of social influence in contemporary society. Students discuss and critique influential communication practices such as interpersonal persuasion, product and services advertisements, social movements and political messages. Course addresses global perspectives on persuasion.

Prerequisite: COMM 25902; and minimum grade of C (2.0) in COMM 20000; and minimum 2.0 cumulative GPA; and Grammar test with minimum score of 680 or COMM 21000 with a minimum of C (2.0) grade.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

Course Attributes: Writing Intensive Course

COMM 45957 LANGUAGE, MEANING AND COGNITION

Overview of language use in social contexts, including basic components of language production; semantics; pragmatics (speech acts); the production and comprehension of sentences; message production; message comprehension; language and society (conversational rules; coherence); individual differences in language use (adaptive ability, gender differences); powerful vs. powerless speech; and intercultural considerations.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 45959 NONVERBAL COMMUNICATION

Survey of theory and research in nonverbal codes of communication through readings, field study and classroom interaction.

Prerequisite: cumulative GPA of 2.0 or better. Pre/corequisite: COMM 30000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 45960 HEALTH COMMUNICATION

Examines communication processes and research related to health and health care from the perspectives of public, professional and primary discourses.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 46091 SENIOR SEMINAR

Capstone course helps students synthesize major coursework. Students complete a career exploration project, examine ethics and issues in communication and also do a portfolio of their achievements.

Prerequisites: Minimum grade of C (2.0) in COMM 20000; and a cumulative GPA of 2.0 or better; and senior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Communication Studies

COMM 46092 PRACTICUM IN APPLIED COMMUNICATION

A formal cooperative field experience with a designated organization or agency, as designed by the student and the practicum director. Pre/corequisites: cumulative GPA of 2.00 or better; and COMM 20000 with a minimum grade of C (2.0) or better; and COMM 35864; and JMC 20005; and VCD 37000; and senior standing; and special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Communication Studies

COMM 46503 HEALTH COMMUNICATION AND MEDIA

Investigation of health messages in traditional and new media, including both incidental communication and planned campaigns. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 46507 EVERYDAY INTERPERSONAL COMMUNICATION AND HEALTH

Examination of the roles of everyday interpersonal communication in physical and psychosocial health and risk behavior.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 46601 RELATIONAL COMMUNICATION

Provides an exploration of theory and research about the interactions among individuals in relationships. Subtopics of the course include communication and the development, maintenance and dissolution of personal relationships; relationships across the life span; individual differences in relationships and relational processes, qualities, and outcomes. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 46605 COMMUNICATION ACROSS THE LIFESPAN

Explores common life stages (childhood, youth, midlife, and old age) and the transitioning of communication within and between these different stages of development. Sub-topics include life span communication and: family, friendships, social and gender role development, interpersonal conflict management, and the use of varied communication technologies facilitating human interaction across the life span. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 46608 FAMILY COMMUNICATION

Examines the interactions among individuals in families. Sub-topics of the course include family communication and storytelling, identity, rules, conflict, intimacy, stress, external influences on family communication, and family communication and the media. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Communication Studies

COMM 55007 FREEDOM OF SPEECH

Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and socio-legal-rhetorical issues. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 55093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES

Variable topic workshop in communication studies. Prerequisite: Graduate standing.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Communication Studies

**COMM 55095 SPECIAL TOPICS**

Offered when resources permit a topic different from existing courses. Topic will be announced when scheduled. Prerequisite:

Graduate standing.
1.000 TO 4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 55459 COMMUNICATION AND CONFLICT

Examination of issues related to managing conflict in communication. Critique and synthesis of conceptual approaches and research pertaining to conflict in interpersonal, organizational and public communication settings. Prerequisite:

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 55960 HEALTH COMMUNICATION

Examines communication processes and research related to health and health care from the perspectives of public, professional and primary discourses.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 60199 THESIS I

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Communication Studies

COMM 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: COMM 60199 and graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Communication Studies

COMM 65000 FOUNDATIONS OF COMMUNICATION INQUIRY

Philosophy of science, epistemological and theory construction principles which are the foundation of inquiry into the process of communication. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 65020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION

An examination of basic quantitative social scientific research methods and procedures for the study of communication.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 65040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION

Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data participant observation, and archival strategies of data collection and interpretive and interactionist approaches to data analysis. Prerequisite:

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 65060 COMMUNICATION MEASUREMENT AND ANALYSIS

A survey of self-report, observational and psychological instruments used in communication research. Uses of the computer in analyzing data obtained in communication research. Prerequisite:

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 65091 SEMINAR IN PERSUASION

Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior. Prerequisite: Special approval and graduate standing.

3.000 OR 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Communication Studies

COMM 65093 VARIABLE TITLE WORKSHOP IN COMMUNICATION

Variable topic workshop in communication studies. Prerequisite: Graduate standing.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Communication Studies

COMM 65096 INDIVIDUAL INVESTIGATION

Independent study of area or problem to be selected in consultation with graduate staff. May be repeated for maximum of 6 credit hours. Prerequisite: Graduate standing.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation
Department: Communication Studies

COMM 65098 RESEARCH

Research or individual investigation for master's level graduate students. Credits may be applied toward meeting degree requirements if school approves. Repeated registration permitted. Prerequisite:

Graduate standing.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Communication Studies

COMM 65591 SEMINAR IN SMALL GROUP COMMUNICATION

Research theories and findings in small group communication. Prerequisite: COMM 35550. Graduate standing.

3.000 OR 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Communication Studies

COMM 65652 THEORIES OF COMMUNICATION

Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research-generation perspective. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 65655 NONVERBAL COMMUNICATION

Examination of a range of nonverbal functions including: relationship development, immediacy and deception. Emphasis on research and theory. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 65656 COMMUNICATIVE USES OF LANGUAGE

Examination of approaches to studying verbal symbol use in human communication processes. Major theories and methods of language analysis will be applied to current research. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Communication Studies

COMM 65660 POLITICAL COMMUNICATION

An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages. Prerequisite: Graduate standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65661 COMMUNICATION IN AN INFORMATION SOCIETY

Examines how the development and use of newer communication technologies have influenced human communication.

Considers the evolution, social and psychological impact, and culture of newer communication technologies such as the Internet, and how research adapts to these newer media. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65662 MASS MEDIA EFFECTS

Examines perspectives on media effects, the impact media have on individuals and societies, and how individual, societal and communication elements influence media uses and effects. Explores issues such as media portrayals, campaigns, violence and children and the media. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65665 PERSONAL AND MEDIATED COMMUNICATION

Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65670 INTERPERSONAL COMMUNICATION

Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65673 FAMILY COMMUNICATION

Family Communication examines the study of theory and research about the interactions among individuals in families. The course also examines how families interact with external entities. Finally, the

course explores health communication, media uses or new communication technologies and work-life balance issues from a family communication perspective. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT

Communication, uncertainty, and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65677 RELATIONAL COMMUNICATION

Relational communication provides an exploration of theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65679 COMMUNICATION ACROSS THE LIFESPAN

Overview of research examining communication across the lifespan, including issues related to communication and cognition, communicative uses of language, communication in close relationships and differences in media uses and effects. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65680 INTERCULTURAL/ INTERNATIONAL COMMUNICATION

Examination of theoretical perspectives, research issues and the rhetorical analyses of intercultural and international communication. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65683 INTERGROUP COMMUNICATION

Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65685 COMMUNICATION AND COGNITION

Application of cognitive theory and research findings to understanding and explaining message production, interpersonal communication, individual differences in adaptive ability, persuasion, political communication, media processing and media effects. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65690 SEMINAR IN COMMUNICATION THEORY

Examination of selected conceptual orientations to the study of human communication and pertinent research. Emphasis on behavioral science research results. Prerequisite: Graduate standing.

3.000 OR 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65791 SEMINAR IN INSTRUCTIONAL COMMUNICATION

Intensive study of selected problems in instructional communication. Prerequisite: Graduate standing.

3.000 OR 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Communication Studies

COMM 65794 TEACHING OF COLLEGE COMMUNICATION

Training and experience in college teaching. Maximum of three hours applicable toward master's degree requirements. Prerequisite: Graduate standing.

2.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies



COMM 65851 ORGANIZATIONAL COMMUNICATION

Structure, methodology and application of communication theory in industrial and organizational settings. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 65891 SEMINAR IN ORGANIZATIONAL COMMUNICATION

Theories and problems of human communication within, between and/or among formal organizations. Prerequisite: Special approval and graduate standing.
3.000 OR 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Communication Studies

COMM 66501 HEALTH COMMUNICATION

Investigation of the role of communication theory, research, and practice in health beliefs and behavior, health care, and health promotion. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 66503 HEALTH COMMUNICATION AND MEDIA EFFECTS

Overview of theory and research on the processing and effects of health messages in the media. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 66506 HEALTH COMMUNICATION AND NEW MEDIA

Investigation of the implementation and effects of new media technologies and their implications for health communication. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 66507 INTERPERSONAL COMMUNICATION AND HEALTH

Investigation of the interpersonal communication processes that influence and/or are influenced by health and health contexts. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 66508 HEALTH COMMUNICATION LITERACY

Investigation of the concept and consequences of communication as it relates to health literacy, including social, cultural, educational, and political forces that affect health literacy levels, and strategies for creating accessible health communication. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 66509 PUBLIC COMMUNICATION CAMPAIGNS

Overview of the major issues surrounding the development, dissemination, and effects of public communication campaigns. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75000 FOUNDATIONS OF COMMUNICATION INQUIRY

Philosophy of science, epistemological and theory construction principles which are the foundation of inquiry into the process of communication. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75020 QUANTITATIVE RESEARCH METHODS IN COMMUNICATION

An examination of basic quantitative social scientific research methods and procedures for the study of communication. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75040 QUALITATIVE RESEARCH METHODS IN COMMUNICATION

Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data, participant observation, and archival strategies of data collection and interpretive and interactionist approaches to data analysis. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75060 COMMUNICATION MEASUREMENT AND ANALYSIS

A survey of self-report, observational and psychological instruments used in communication research. Uses of the

computer in analyzing data obtained in communication research. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75091 SEMINAR IN PERSUASION

Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior. Prerequisite: Special approval and doctoral standing.
3.000 OR 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Communication Studies

COMM 75093 VARIABLE TITLE WORKSHOP IN COMMUNICATION STUDIES

Variable title workshop in communications. Prerequisite: Doctoral standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Communication Studies

COMM 75095 SPECIAL TOPICS

Offered when resources permit a topic different from existing courses. Topic will be announced when scheduled. Prerequisite: Doctoral standing.
1.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75096 INDIVIDUAL INVESTIGATION

Independent study of area or problem to be selected in consultation with graduate staff. Prerequisite: Doctoral standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Communication Studies

COMM 75591 SEMINAR IN SMALL GROUP COMMUNICATION

Research theories and findings in small group communication. Prerequisite: COMM 35550. Doctoral standing.
3.000 OR 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Communication Studies

COMM 75652 THEORIES OF COMMUNICATION

Introduction to approaches in the study of human communication. Focuses on differing views of interaction from theory building and research generation perspective. Prerequisite: Doctoral standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75655 NONVERBAL COMMUNICATION

Examination of a range of nonverbal functions including: relationship development, immediacy and deception. Emphasis on research and theory. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75656 COMMUNICATIVE USES OF LANGUAGE

Examination of approaches to studying verbal symbol use in human communication processes. Major theories and methods of language analysis will be applied to current research. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75660 POLITICAL COMMUNICATION

An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75661 COMMUNICATION IN AN INFORMATION SOCIETY

Examines how the development and use of newer communication technologies have influenced how people communicate. Considers the evolution, social and psychological impact and culture of newer communication technologies especially the Internet, and how research adapts to such technologies. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75662 MASS MEDIA EFFECTS

Examines perspectives on media effects, the impact media have on individuals and societies and how individual, societal and communication elements influence media uses and effects. Explores issues such as media portrayals, campaigns, violence and children and the media. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75665 PERSONAL AND MEDIATED COMMUNICATION

Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75670 INTERPERSONAL COMMUNICATION

Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development interaction, interpersonal traits, compliance, conversational analysis and research methods. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75680 INTERCULTURAL/INTERNATIONAL COMMUNICATION

Examination of theoretical perspectives, research issues and the rhetorical analyses of intercultural and international communication. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75690 SEMINAR IN COMMUNICATION THEORY

Examination of selected conceptual orientations to the study of human communication and pertinent research. Emphasis on behavioral science research results. Prerequisite: Doctoral standing.
3.000 OR 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75791 SEMINAR IN INSTRUCTIONAL COMMUNICATION

Intensive study of selected problems in instructional communication. Prerequisite: Doctoral standing.
3.000 OR 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Communication Studies

COMM 75794 TEACHING OF COLLEGE COMMUNICATION

Training and experience in college teaching. Maximum of three hours applicable toward master's degree requirements. Prerequisite: Doctoral standing.
2.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75851 ORGANIZATIONAL COMMUNICATION

Structure, methodology and application of communication theory in industrial and organizational settings. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 75891 SEMINAR IN ORGANIZATIONAL COMMUNICATION

Theories and problems of human communication within, between and/or among formal organizations. Prerequisite: Special approval and doctoral standing.
3.000 OR 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Communication Studies

COMM 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Communication Studies

COMM 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: COMM 80199 and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Communication Studies

COMM 85098 RESEARCH

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if school approves. Prerequisite: doctoral standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Communication Studies

**COMM 85673 FAMILY COMMUNICATION**

Family Communication examines the study of theory and research about the interactions among individuals in families. The course also examines how families interact with external entities. Finally, the course explores health communication, media uses or new communication technologies and work-life balance issues from a family communication perspective. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 85675 COMMUNICATION, UNCERTAINTY AND PRIVACY MANAGEMENT

Communication, uncertainty and the management of private information examines theory and research about disclosure and uncertainty issues in communication in a variety of contexts. Course content examines disclosure and uncertainty management applications in relational contexts, health contexts, organizational contexts, and contexts involving human interaction occurring through technology. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 85677 RELATIONAL COMMUNICATION

Relational communication provides an exploration of communication theory and research about the interactions among individuals in personal relationships. Subtopics of the course include communication and the development, maintenance, and dissolution of personal relationships, relationships across the life span, individual differences in relationships and relational processes, qualities and outcomes. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 85679 COMMUNICATION ACROSS THE LIFESPAN

Overview of research examining communication across the lifespan, including issues related to communication and cognition, communicative uses of language, communication in close relationships and differences in media uses and effects. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 85683 INTERGROUP COMMUNICATION

Overview of theory and research of communication between groups of individuals, including issues of discrimination, language, identity, social status, religion and demographics. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 85685 COMMUNICATION AND COGNITION

Application of cognitive theory and research findings to understanding and explaining message production, interpersonal communication, individual differences in adaptive ability, persuasion, political communication, media processing and media effects. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 86501 HEALTH COMMUNICATION

Investigation of the role of communication theory, research, and practice in health beliefs and behavior, health care and health promotion. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Seminar
Department: Communication Studies

COMM 86503 HEALTH COMMUNICATION AND MEDIA EFFECTS

Overview of theory and research on the processing and effects of health messages in the media. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 86506 HEALTH COMMUNICATION AND NEW MEDIA

Investigation of the implementation and effects of new media technologies and their implications for health communication. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 86507 INTERPERSONAL COMMUNICATION AND HEALTH

Investigation of the interpersonal communication processes that influence and or are influenced by health and health contexts. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 86508 HEALTH COMMUNICATION LITERACY

Investigation of the concept and consequences of communication as it relates to health literacy, including social, cultural, educational, and political forces that affect health literacy levels, and strategies for creating accessible health communication. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

COMM 86509 PUBLIC COMMUNICATION CAMPAIGNS

Overview of the major issues surrounding the development, dissemination, and effects of public communication campaigns. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Communication Studies

Computer Technology (COMT)**COMT 11000 INTRODUCTION TO COMPUTER SYSTEMS**

Covers the basic concepts and use of computer systems, including hardware, personal productivity software, Internet usage and file management. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College
Course Attributes: TAG Business

COMT 11002 VISUAL BASIC PROGRAMMING

Visual Basic.NET language introducing concepts of object-oriented, event-driven program design and implementation. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 11003 SELECTED PROGRAMMING LANGUAGES

Laboratory course covering a selected programming language. Data types, control structures, data representation, testing, debugging, unique features of language. Repeated registration permitted for different languages. Prerequisite: COMT 11002 or 21001.
2.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate



Schedule Types: Combined Lecture/Lab
Department: Regional College

COMT 11004 SURVEY OF INFORMATION TECHNOLOGY

This overview course will provide an introduction to information technologies, career paths and professional certifications available. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 11005 INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING TECHNOLOGY

Lab-oriented survey of desktop/network OS essentials, including file/disk management, system tools utilization, resource sharing and introductory network concepts. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

COMT 11006 INTRODUCTION TO WEB SITE TECHNOLOGY

Focuses on web site technologies including HTML. Students learn the history of the Internet and effective search techniques. Prerequisites: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 11009 COMPUTER ASSEMBLY AND CONFIGURATION

Covers disk operating system functions and features; hardware/software installation procedures; file and directories management; system configuration/optimization; backup procedures. Prerequisite: COMT 11005 or COMT faculty special approval.
4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 12000 PERSONAL PRODUCTIVITY SOFTWARE

Covers the concepts and integration of computer applications. Emphasis on software suites, specifically word processing, electronic spreadsheets, database and presentation applications. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 20001 C++ PROGRAMMING

Course using C++ introducing concepts of software development, object-oriented event-driven programming, testing and

debugging, simple and complex data types language syntax and semantics.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 20011 JAVA PROGRAMMING

Course using Java introducing concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types, language syntax and semantics. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 21002 NETWORK SETUP AND CONFIGURATION

Laboratory course introducing networking in LAN and WAN environments. Topics include network protocol, configuration, operation, setup, installation, administration, management and security. Pre- or corequisite: COMT 11009 or COMT faculty special approval.
4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

COMT 21005 VISUAL BASIC DATABASE PROGRAMMING

Advanced laboratory course in the visual basic language focusing on database systems development. Prerequisite: COMT 11002.
4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

COMT 21006 ASSEMBLY LANGUAGE PROGRAMMING

A course in assembly language programming with applications in software development and an introduction to hardware interfacing to input/output devices. Prerequisite: COMT 11002 or 20001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 21007 INTERNET ETHICS AND POLICIES

Covers the ethics, issues and policies regarding the Internet. It includes discussion/research on intellectual property/freedom, hacking, pornography, privacy, etc. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Regional College

COMT 21008 COMPUTER METHODS IN SCIENCE AND ENGINEERING

Use of computers in problems related to science and engineering. Course will include introduction to elements of a high level scientific language. Prerequisites: MATH 19001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 21009 SEMINAR IN COMPUTER TECHNOLOGY

Capstone course for COMT students encompassing critical reading, writing and discussion applying the current theories of computer technologies to on-the-job experiences. Students will develop a portfolio to confirm their level of knowledge. Prerequisite: COMT 11002 and 11005 and 11006 and 11009 and 21002 and 21010.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Regional College

COMT 21010 WORKGROUP PRODUCTIVITY SOFTWARE

Research project-oriented course emphasizing workgroup methodologies for group project management, problem definition, data retrieval and analysis, conclusions and recommendations. Prerequisite: COMT 12000; or ITAP 16639 and 26611.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

COMT 21011 TECHNIQUES OF MULTIMEDIA WEB DESIGN

This lab-oriented course will focus on developing and managing effective web sites using multimedia elements including sound and video. Prerequisite: COMT 11006 or COMT faculty special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

COMT 21036 WEB SCRIPTING I

This course will focus on both client-side and server-side scripting needed to create interactive and dynamic web sites. The use of scripting in context with various technologies will be explored. Prerequisite: COMT 11002 and COMT 11006 or COMT faculty special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

**COMT 21092 COMPUTER PRACTICUM**

Supervised work experience in information technology environment; 50 hours supervised work experience per credit hour. Prerequisite: sophomore standing. 1.000 TO 3.000 Credit hours 1.000 TO 3.000 Other hours Level: Undergraduate Schedule Types: Practicum Department: Regional College

COMT 21095 SPECIAL TOPICS IN COMPUTER TECHNOLOGY

Topics announced when scheduled. Prerequisite: Permission. 1.000 TO 4.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

COMT 21096 INDIVIDUAL INVESTIGATION IN COMPUTER TECHNOLOGY

Individual study in computer field. Open to computer technology majors. Prerequisite: Permission. 1.000 TO 4.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Individual Investigation Department: Regional College

COMT 21100 LOCAL AREA NETWORK TROUBLESHOOTING

Laboratory course covering local area network troubleshooting techniques. Topics will include identifying the scope of the problem, systematic troubleshooting approaches, problem resolution and ongoing maintenance. Prerequisite: COMT 21002. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Combined Lecture/Lab Department: Regional College

COMT 21110 INTERNETWORKING

Laboratory course introducing internetworking concepts. Topics will include networking standards, cabling, TCP/IP, router configuration, LAN and WAN segments and other related topics. Prerequisite: COMT 21002 or full-time COMT faculty special approval. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Combined Lecture/Lab Department: Regional College

COMT 36095 SPECIAL TOPICS IN COMPUTER TECHNOLOGY

Various special courses will be announced in the schedule of classes under this course number with different section numbers. Prerequisite: none. 2.000 TO 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

COMT 36301 ADVANCED C++ PROGRAMMING

Course using C++: classes and data abstraction, stream IO, inheritance, standard template library, Microsoft Foundation Classes, system programming concepts using Unified Modeling Language.. Prerequisite: COMT 20001. 4.000 Credit hours 4.000 Other hours Level: Undergraduate Schedule Types: Combined Lecture/Lab Department: Regional College

COMT 36302 C SHARP PROGRAMMING

Introduces concepts of software development, object-oriented event-driven programming, testing and debugging, simple and complex data types, language syntax and semantics. Prerequisite: COMT 20001 or COMT 20011. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

COMT 36303 DIGITAL IMAGE MANIPULATION

Course covers various concepts involved in the creation and manipulation of digital images. Prerequisite: COMT 11006. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

COMT 36308 ERGONOMICS IN COMPUTER SYSTEMS

Introduction to ergonomics, usability design, and assessment methods for the development of computer hardware, software, and systems. Prerequisite: COMT 11002. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

COMT 36309 PROGRAMMING MOBILE APPLICATIONS

Introduces the unique program design considerations required by mobile device platforms such as PDAs and Smartphones. Practical programming examples will utilize Visual Basic and the .NET Compact Framework. Prerequisite: COMT 21005 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

COMT 36310 MULTIMEDIA DEVELOPMENT TOOLS

Course focuses on advanced technologies for Web development, including DHTML, plug-ins, etc. Students will learn to create more interactive and dynamic web sites. Prerequisite: COMT 21011. 3.000 Credit hours 3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 36311 ADVANCED JAVA PROGRAMMING

Course using Java abstract data types and objects, object-oriented, event-driven design, file organization and access, and systems programming concepts. Prerequisite: COMT 20011. 4.000 Credit hours 4.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

COMT 36315 CERTIFICATION PREPARATION IN COMPUTER TECHNOLOGY

(Repeatable for a total of 6 credit hours) Certification preparation course to help students prepare for professional certification attempts in Computer Technology. Certification is not guaranteed. Certification fees may apply. Prerequisite: special approval. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

COMT 36318 SURVEY OF INFORMATION SECURITY INTERNET FRAUD AND COMPUTER FORENSICS

This lecture-based, survey course provides a non-technical introduction to contemporary issues in information security, Internet fraud and computer forensics. Prerequisite: ENG 21011 or HONR 10297; and junior standing. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College Course Attributes: Writing Intensive Course
COMT 36320 COMPUTER FORENSICS Hands-on skills in incident response, forensic preparation, and data recovery, and analysis. Prerequisite: COMT 21002 or TECH 23010 and TECH 26301 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

COMT 36321 NETWORK FORENSICS

Emphasizing hands-on skills in live incident response, the proper use of network forensic tools, network monitoring, live data capture, evidence analysis, data integrity and other related topics. Prerequisite: COMT 21002. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

**COMT 36330 LOCAL AREA NETWORK SECURITY FUNDAMENTALS**

Examines the primary issues involved in securing resources in a LAN, including threat assessment, countermeasures, best practices, security protocols, cryptography and management-related issues.

Prerequisite: COMT 21002.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 36331 INTERNETWORKING II

Reinforcing Internetworking concepts. Topics include network standards, LAN switching, VLANs, network designs, routing protocols and configuration, LAN and WAN segments, and other related topics.

Prerequisite: COMT 21110.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 36336 WEB SCRIPTING II

Focuses on more in-depth on selected scripting topics needed to create interactive and dynamic web sites.. Prerequisite: COMT 21036 or special approval of COMT faculty.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 36340 HELP DESK SUPPORT

Examination of help desks that exist, importance within organizations, the roles and skills required, and methods and technologies commonly employed.

Prerequisite: COMT 11009.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 36350 PROGRAMMING OFFICE PRODUCTIVITY APPLICATIONS

Introduces the use of Visual Basic for Applications (VBA) as a tool to create customized programs that automate repetitive and/or complex tasks performed using office suite applications. Prerequisite: COMT 11002 and COMT 21010.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 36355 COMMAND LINE UTILITIES

Preparing students to perform effectively in Windows, Linux, and various server command line environments. Command syntax, batch files, script files, internal & external commands, and other related topics will be covered. Prerequisite: COMT 21002.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 36392 INTERNSHIP FOR COMPUTER TECHNOLOGY STUDENTS

An arranged work experience for students in the IT field. Students will complete 150 hours of unpaid internship or 225 hours of paid internship. Prerequisite: junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Regional College

COMT 46300 ADVANCED COMPUTER ASSEMBLY AND CONFIGURATION

Focus is on advanced system components, streamlined operating system installation procedures, and current technology in LAN connectivity. Prerequisite: COMT 11009 and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 46303 DIGITAL VIDEO EDITING

Utilizes digital imaging technologies to produce videos. Includes timelines; filming, importing/exporting video; audio; effects, transitions, and captions. Prerequisite: COMT 36303.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 46308 DEVELOPING DESKTOP APPLICATIONS

Advanced issues of Visual Basic related to design implementation of desktop applications. Topics include component objects, online help, advanced debugging error handling, deployment, optimization. Prerequisite: COMT 21005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

COMT 46309 DEVELOPING DISTRIBUTED APPLICATIONS

Course focuses on interface design and establishment of transaction-based client/server database applications using distributed objects, server object components, SQL and Web technologies. Prerequisite: COMT 46308.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

COMT 46310 TECHNOLOGY OF OPERATING SYSTEMS

Course covering installation, configuration, tuning, and communication among state of

the art desktop operating systems, using available system tools, utilities and files.

Prerequisites: COMT 21002.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 46311 TECHNOLOGY OF NETWORKING

Advanced topics of enterprise network management, including DNS, WINS, IP addressing, routing basics, subnet masking, firewalls, storage redundancy techniques, and general tuning, optimizing, troubleshooting, recovery strategies.

Prerequisites: COMT 21002.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

COMT 46312 SCRIPTING FOR NETWORK ADMINISTRATORS

Covers scripting technologies to configure and manage resources and services of LAN servers and workstations. Prerequisites: COMT 21002 and COMT 21036.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 46313 VIRTUAL MACHINE CONFIGURATION AND ADMINISTRATION

Focus on configuring and administering virtual machine software. Prerequisite: COMT 21002 and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 46314 TECHNOLOGY OF APPLICATION SERVICES

Focus is on the core service roles provided by application services including configuration, maintenance and security. Prerequisite: COMT 21002.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 46315 SQL WITH ORACLE

Focus is on SQL and relational databases using Oracle. Prerequisite: COMT 21005.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

COMT 46321 WEB DATABASE INTEGRATION

Focus is on integrating data sources into web sites. Current topics include server-side processing principles, web forms,



database programming objects and Structured Query Language. Prerequisite: COMT 21005 and COMT 21036.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 46331 LOCAL AREA NETWORK SECURITY AND FIREWALLS

Examines the primary issues involved in defining and configuring a local area network defense perimeter including LAN security analysis, implementing firewalls, and intrusion detection systems. Prerequisite: COMT 36330.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

COMT 46340 DATA DESIGN AND IMPLEMENTATION

Explores the role and design of databases in organizations, with emphasis on the technologies used in their implementation. Emphasis on SQL. Prerequisite: COMT 21005 and COMT 21010.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

Chemical Physics (CPHY)

CPHY 60199 THESIS I

Thesis students must register for a total of 6 hours, 2-6 hours in a single semester or distributed over two semesters if desired. Prerequisite: Approval of adviser and graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Arts and Sciences

CPHY 60299 THESIS II

Thesis students must continually register each semester until all degree requirements are met. Prerequisite: CPHY 60199 and graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Arts and Sciences

CPHY 60498 RESEARCH

Research or individual investigation. Credits earned may be applied toward meeting degree requirements if approved. Prerequisite: Permission and graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Arts and Sciences

CPHY 62241 SOFT MATTER

Lectures on soft materials, including binary fluid mixtures, polymers, colloids, thermotropic and lyotropic liquid crystals. Structures, defects, and textures of phases with orientational and partial translational order. Dynamics of phase transitions. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

CPHY 62242 CHARACTERIZATION OF SOFT MATERIALS

Basic techniques in characterization using X-ray scattering, neutron scattering, light scattering, NMR, optical microscopy, scanning electron microscopy, transmission electron and tunneling electron microscopy and ellipsometry. Laboratory measurements, error analysis, cell fabrication. Prerequisite: graduate standing.
4.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Arts and Sciences

CPHY 62243 LYOTROPIC LIQUID CRYSTALS AND MICELLAR SYSTEMS

Properties of lyotropic liquid crystals, polymer solutions and aqueous solutions of amphiphilic compounds. Self-assembly of amphiphilic compounds, formation and properties of micelles, cylinders, bilayers, vesicles and tubules. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

CPHY 62245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE

Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties except the nature of their phase transitions. Also discussed is their interactions with surfaces and the structural defects that they can form. Prerequisite: graduate standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

CPHY 64491 SEMINAR: LIQUID CRYSTALS

Discussion of current literature or original research in liquid crystals. Participation by students faculty and guests. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Arts and Sciences

CPHY 64495 SPECIAL TOPICS IN CHEMICAL PHYSICS

Topic to be announced when scheduled. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

CPHY 72241 SOFT MATTER

Lectures on soft materials, including binary fluid mixtures, polymers, colloids, thermotropic and lyotropic liquid crystals. Structures, defects, and textures of phases with orientational and partial translational order. Dynamics of phase transitions. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

CPHY 72242 CHARACTERIZATION OF SOFT MATERIALS

Basic techniques in characterization using X-ray scattering, neutron scattering, light scattering, NMR, optical microscopy, scanning electron microscopy, transmission electron and tunneling electron microscopy and ellipsometry. Laboratory measurements, error analysis, cell fabrication. Prerequisite: doctoral standing.
4.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Arts and Sciences

CPHY 72243 LYOTROPIC LIQUID CRYSTALS AND MICELLAR SYSTEMS

Properties of lyotropic liquid crystals, polymer solutions and aqueous solutions of amphiphilic compounds. Self-assembly of amphiphilic compounds, formation and properties of micelles, cylinders, bilayers, vesicles and tubules. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

CPHY 72245 FUNDAMENTALS OF LIQUID CRYSTAL SCIENCE

Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties, except the nature of their phase transitions. It also discusses their interactions with surfaces and the structural defects that they can form. Prerequisite: doctoral standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Arts and Sciences

**CPHY 72248 LIQUID CRYSTAL OPTICS AND PHOTONICS**

Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechanical effects in liquid crystal elastomers.

Prerequisite: Doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72249 LABVIEW FOR DATA ACQUISITION AND INSTRUMENT CONTROL

Introduction to laboratory data acquisition and instrument control using Labview software. Prerequisite: Special approval and doctoral standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72335 ADVANCED LIQUID CRYSTALLINE AND POLYMERIC MATERIALS

Lecture on ordered systems and materials, including liquid crystals, liquid crystal polymers, guest-host systems and effects, photochemical interactions of anisotropic systems, materials for liquid crystal alignment. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

0.000 Lab hours

Level: Graduate

Schedule Types: Laboratory, Lecture

Department: Arts and Sciences

CPHY 72415 FLUID MECHANICS AND RHEOLOGY

Static and dynamic properties of fluids: hydrostatics, Navier-Stokes equations, Newtonian fluids, viscosity, anisotropic liquids and rheology of highly viscous fluids. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72418 DEFECTS IN LIQUID CRYSTAL MATERIALS

Defects in solids and liquid crystals: observation and characterization of defects, elastic properties, defect interactions and movement and phases with periodic defect structures. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72461 NONLINEAR OPTICS OF MATERIALS

Fundamentals of nonlinear optics of materials: nonlinear polarization and susceptibilities, optical harmonic generation, sum and difference frequency generation, parametric amplifiers and oscillators, and stimulated scattering.

Prerequisite: PHY 4/55501 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72515 CHEMISTRY OF AMPHIPHILES

Multi-phase liquid crystal systems: molecular structure and properties of amphiphiles in water with emphasis on thermodynamics of self-assembly, phase properties of micellar, hexagonal and lamellar systems. Prerequisite: Permission and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72517 MEMBRANE SPECTROSCOPY

Multi-phase liquid crystal systems: spectroscopic techniques to determine structure and molecular dynamics of model and biological membranes with emphasis on magnetic resonance techniques. Prerequisite: Permission and doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72640 LIQUID CRYSTAL, POLYMER AND COLLOID COMPOSITES

Interdisciplinary science of systems consisting of liquid crystal, polymer and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLCs), polymer stabilized liquid crystals (PSLCs) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSLC light shutters. Prerequisite: doctoral standing.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Arts and Sciences

CPHY 72641 LIQUID CRYSTAL SURFACES AND INTERFACES

Surface tension of liquids and solids, surface structure, Wulff constructions, wetting and roughening and experimental

methods in surface studies. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72643 LIQUID CRYSTAL APPLICATIONS

Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize the student with the state of the art in liquid crystal displays and other electro-optical applications of liquid crystals and to prepare them to advance the art in future designs. Prerequisite: doctoral standing.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72645 SEMICONDUCTOR DEVICES

Introduction to semiconductor device technology, including principles of operation, integrated circuit fabrication techniques and device applications.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72647 STRUCTURED FLUIDS

The basics of fluids having internal structures, such as long range orientational order and/or one and two dimensional positional order. Such materials include thermotropic smectic, lamellar lyotropic and columnar liquid crystals. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72650 COMPUTATIONAL MATERIALS SCIENCE

Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies. Prerequisite: doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 72651 NANOBIO TECHNOLOGY

Nanobiotechnology is the manipulation and analysis of biological molecules, cellular components with nanometer sizes. This interdisciplinary course presents the



concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 74491 SEMINAR:LIQUID CRYSTALS

Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests. Prerequisite: Special approval and doctoral standing.

1.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Arts and Sciences

CPHY 74495 SPECIAL TOPICS IN CHEMICAL PHYSICS

Topic to be announced when scheduled.

Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Arts and Sciences

CPHY 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. Prerequisite: Special approval and doctoral standing.

15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Arts and Sciences

CPHY 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: Completion of 30 hours of CPHY 80199.

Doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Arts and Sciences

CPHY 80498 RESEARCH

Research or individual investigation for doctoral student who has not yet passed candidacy exam. Credit earned may be applied toward degree. Prerequisite: Doctoral standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Arts and Sciences

Computer Science (CS)

CS 10001 COMPUTER LITERACY

Introduction to history, language, procedures, applications, abuses and impact of computers. Hands-on experience with microcomputers. Not open to students with previous experience. Prerequisite: None.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Computer Science Department

CS 10051 INTRODUCTION TO COMPUTER SCIENCE

An introductory, broad and hands-on coverage of aspects of computer science, including algorithms, problem solving, operating systems concepts, computer architecture, programming languages and modern applications. Three-credit lecture with one-credit lab. Prerequisite: none.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Computer Science Department

Course Attributes: Kent Core-Mathematics and Critical Reasoning

CS 10061 INTRODUCTION TO COMPUTER PROGRAMMING

Emphasizes programming in a high-level language, includes structured programming, program design, expressions, data control, arrays, records, strings and functions. Prerequisite: MATH 11009 or 11010; or minimum SAT 480/ACT 20 and Compass Algebra score of 55; or minimum SAT 620/ACT 26 and Compass Algebra score of 36.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Computer Science Department

CS 13401 USER LEVEL COMPUTER SECURITY

Introduction to computer and network safety; detection and removal of viruses, detection and defense against spyware and root kits, firewall description and use, protection mechanisms against computer system hacking, spam, identity theft and phishing, protecting wireless networks, safe computing. Includes many in-lecture tutorials. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Computer Science Department

CS 19995 SPECIAL TOPICS IN COMPUTER SCIENCE

Special topics from all areas of computer science. Repeat registration permitted.

Prerequisite: Permission.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Computer Science Department

CS 23021 COMPUTER SCIENCE I- PROGRAMMING AND PROBLEM SOLVING

Computer science concepts including algorithm development and problem solving strategies focused on procedural abstraction. High-level programming concepts including data types, expressions, program structures, functions, parameter passing, scope, extent, arrays, introduction to recursion and an introduction to object oriented-concepts. Course is three hours lecture and one hour lab. Prerequisite: C (2.0) or better in MATH 11009 or 11010.

4.000 Credit hours

3.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Computer Science Department

CS 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE

Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include logic, sets, functions, relations, algorithms, proof techniques, counting, graphs, trees, Boolean algebra, grammars and languages. Prerequisite: and minimum grade of C (2.0) in MATH 11009 or 11010.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Computer Science Department

CS 27101 INTRODUCTION TO WEB INTERFACE DESIGN

Introduction to principles for the design and implementation of user-centered website interfaces, website interface evaluation, human computer interaction, effective data organization and manipulation and tools for website creation. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Computer Science Department

CS 29995 SPECIAL TOPICS IN COMPUTER SCIENCE

Special topics from all areas of computer science. Repeat registration permitted.

Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Computer Science Department

**CS 31045 FORMAL LOGIC**

Study of first order predicate calculus with identity and function symbols. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 33001 COMPUTER SCIENCE II-DATA STRUCTURES AND ABSTRACTION

Computer science concepts and problem solving focusing on data structure and abstraction. Object-oriented concepts and programming including encapsulation, information hiding, object design, generics, polymorphism and an introduction to inheritance. Dynamic memory structures including dynamic arrays, pointers, linked-lists and the use of recursion for problem solving. Abstract data types including stacks, queues, lists, trees and graphs. Prerequisite: minimum grade of C (2.0) in CS 23021. Corequisite: CS 23022.

4.000 Credit hours
3.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Computer Science Department

CS 33006 SOCIAL AND ETHICAL ISSUES IN COMPUTING

Social issues, including historical and social context, professional responsibilities, risks and liabilities and intellectual property. Prerequisite: C (2.0) or better in CS 23021.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 33011 SPEED PROGRAMMING TECHNIQUES

Discussion and practice of pertinent aspects related to programming under time constraints. Prerequisite: CS 33001.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Computer Science Department

CS 33092 SPEED PROGRAMMING PRACTICUM

Practice of pertinent aspects from CS 3301. Prerequisite: CS 33011.

2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Computer Science Department

CS 33101 STRUCTURE OF PROGRAMMING LANGUAGES

Introduction to syntax, semantics, behavior and implementation issues in imperative, functional, logic and object-oriented languages; type theory, concurrency, data dependency non-determinism and internet languages. Prerequisite: C (2.0) or better in CS 33001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 33192 INTERNSHIP IN COMPUTER SCIENCE

Supervised work experience in computer science. Since this work will be outside the department a report and final presentation will be required; a site visit might also be necessary. Prerequisite: CS 33006 and special approval.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Computer Science Department

CS 33211 OPERATING SYSTEMS

Introduction to operating systems, processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, networking and distributed systems. Prerequisite: CS 35101 and C (2.0) or better in CS 33001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 33223 UNIX TOOLS

Course will cover Unix operating system environment topics that will make the user more productive. Topics will include the user environment shells, files, the file system, editors, scripting languages, document processing, processes, remote access and documentation. Prerequisite: CS 23021.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 35101 COMPUTER ARCHITECTURE

Functional overview of computer systems, interconnection of basic components, system performance measures, instruction set design, arithmetic logic unit control unit, memory system, pipelining, interrupts and input-output. Prerequisite: CS 23021.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 38101 INTRODUCTION TO GAME PROGRAMMING

Game engine scripting, event driven and data driven programming, game engine data structures, basic game related graphics and AI concepts, a short game development project. Prerequisite: minimum grade of C (2.0) or better in CS 33001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Computer Science Department

CS 39995 SPECIAL TOPICS IN COMPUTER SCIENCE

Special topics from all areas of computer science. Repeat registration permitted. Prerequisite: Permission.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 41012 FINITE MATHEMATICS

A continuation of discrete math: emphasizing combinatorial techniques, graph applications in algorithms, finite algebra, number theory and probability. Covers useful math for CS majors. Prerequisite: CS 23022.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 41045 METALOGIC

Consideration of various met-theorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus and incompleteness of the theory of arithmetic. Prerequisite: PHIL 31045.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 42201 INTRODUCTION TO NUMERICAL COMPUTING I

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems and optimization problems. Prerequisite: MATH 12003; and MATH 21001 or MATH 32051; and CS 10061 or CS 23021.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 42202 INTRODUCTION TO NUMERICAL COMPUTING II

A continuation of CS 42201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations. Prerequisite: MATH 32044 or MATH 32052; and MATH 42201 or CS 42201.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 43005 INTRODUCTION TO DATABASE SYSTEM DESIGN

An introduction to the basic theoretical aspects of database systems, file



organization, search methodologies, language design and performance evaluation techniques, initial modeling concepts and their use in hierarchical, network, relational and object-oriented database designs. Prerequisite: CS 46101 and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 43006 THEORY OF OBJECT-ORIENTED PROGRAMMING

In depth course on the theory and principles of object-based and object-oriented programming using a language such as C++. The course covers advanced topics in inheritance and interface planning, generic (type independent) programming, factors of polymorphism, structure and organization of class libraries and object oriented design principles. Prerequisite: CS 33001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 43111 STRUCTURE OF COMPILERS

Techniques used to write compilers including lexical analysis, syntax analysis, syntax-directed translation, type checking, run-time environments, and intermediate code generation. Prerequisite: CS 35101 and 33101.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 43202 SYSTEMS ADMINISTRATION

The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX, together with the analysis of problems which can arise in these activities. Prerequisite: CS 33211.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 43203 SYSTEMS PROGRAMMING

Implementation and maintenance of system programs, system utilities; command interpreters, editors, file maintenance programs, text processors. Interrupt handling. Device drivers. Prerequisite: CS 33211.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 43401 SECURE PROGRAMMING

Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and

cryptography, random number generators. Prerequisites: C (2.0) or better in CS 33001 and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 43901 SOFTWARE ENGINEERING

An introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management and maintenance. Prerequisite: C (2.0) or better in CS 33001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 44201 ARTIFICIAL INTELLIGENCE

Examines goals, problems, concepts and methods of artificial intelligence, heuristic versus algorithmic methods, natural language comprehension, theorem proving. Prerequisite: CS 33001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 45111 PRINCIPLES OF VLSI DESIGN

Introduction to the design of VLSI chips, with emphasis on FPLD based design. Students will design various chips using standard industry logic synthesis tools. Prerequisite: CS 35101.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 45201 COMPUTER COMMUNICATION NETWORKS

An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks, and WWW as an example of a client-server system. Prerequisite: CS 33211.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 45231 INTERNET ENGINEERING

Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML etc.) web server architecture, browser internet security and multimedia serving. Prerequisite: CS 33001, 33211 and 45201.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Computer Science Department

CS 46101 DESIGN AND ANALYSIS OF ALGORITHMS

Introduction to algorithmic concepts, design and complexity analysis of algorithms, searching, sorting, graphs, geometric algebraic and parallel algorithms. Prerequisite: MATH 12003 and C (2.0) or better in CS 33001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 46201 INTRODUCTION TO THEORY OF AUTOMATA, FORMAL LANGUAGES, COMPUTATION

A study of alphabets, strings, languages; regular languages and expressions, deterministic and nondeterministic finite automata, context-free grammars and languages, pushdown automata, Turing machines and complexity theory. Prerequisite: CS 23022 and MATH 12003.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 47101 COMPUTER GRAPHICS

Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications. Prerequisite: CS 33001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 47105 INTRODUCTION TO WEB DESIGN AND PROGRAMMING

A joint computer science (CS) and visual communication design (VCD) course on web concepts and high quality web design: CS, VCD, principles, tools, architecture, presentation, design and creation of web sites by teamwork. Web-based instruction is used. Prerequisite: CS 33001 and VCD 37000.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Computer Science Department

CS 47106 WEB DESIGN AND PROGRAMMING II

A joint computer science and visual communication design course on advanced web techniques and multimedia Web design: Web servers, security, advanced design, JAVA servlets, applets database connectivity, site maintenance, creation of actual web sites by teamwork. Prerequisite: CS 47105.
3.000 Credit hours
3.000 Other hours



Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Computer Science Department

CS 47107 WEB DESIGN AND PROGRAMMING STUDIO

A joint computer science (CS) and visual communication design (VCD) project course. Comprehensive experience on aspects of website creation, hosting, maintenance and management. Creative combination and integration of art and programming are emphasized. Prerequisite: CS 47106 and VCD 46003.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Computer Science Department

CS 47201 HUMAN COMPUTER INTERACTION

Approaches the human-computer interaction as an activity of the human whose productivity is increased by the use of the computer as a tool. Examines physiology and psychology considers the structure and operation of the computer and models the interaction between the two. Prerequisite: CS 33001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 47205 INFORMATION SECURITY

An introduction to concepts and methodology useful for information security, as specified by the NSTISSI NO. 4011 standard from the NSA. Prerequisite: CS 33006.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 47221 INTRODUCTION TO CRYPTOLOGY

Introduction to cryptography, classical cryptology, authentication, complexity issues, encryption standards, algebraic foundations, survey of existing cryptology protocols: AES/Rijndael, block chaining, asymmetric techniques. Prerequisites: C (2.0) or better in CS 33001 and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 48101 GAME ENGINE CONCEPTS

Introduction to 3D game engine design, game memory management, multithreading in games, sprites and bitmap animation level design, path finding, audio-visual effects, AI and physical modeling in games, networked gaming. Prerequisites: minimum grade of C (2.0) in CS 38101 and CS 47101; and junior standing.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 48102 GAME DEVELOPMENT PRACTICUM

With the supervision of the instructor, students will work in teams to design and implement a computer game or 3D interactive learning environment using a game engine. Prerequisites: CS 48101 and junior standing.
4.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Computer Science Department

CS 49901 CAPSTONE PROJECT

The course is an integrative experience that brings together all components of the undergraduate computer science curriculum in an applied, hands-on real-world setting. The course is three-credits lecture and one-credit lab. Prerequisites: CS 33006 and CS 43005 and CS 43901 and CS 45201.
4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Computer Science Department

CS 49995 SPECIAL TOPICS IN COMPUTER SCIENCE

Special topics from all areas of computer science. Repeat registration permitted. Prerequisite: special approval.
1.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Computer Science Department

CS 49996 INDIVIDUAL STUDY

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Computer Science Department

CS 49998 RESEARCH

1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Research
Computer Science Department

CS 51012 FINITE MATHEMATICS

A continuation of discrete mathematics; emphasizing combinatorial techniques, graph applications in algorithms, finite algebra, number theory and probability. Covers useful mathematics for CS majors. Prerequisite: CS 23022; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 51045 METALOGIC

Consideration of various meta-theorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus and incompleteness of the theory of arithmetic. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 52201 INTRODUCTION TO NUMERICAL COMPUTING I

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems, and optimization problems. Prerequisite: MATH 12003, 21001 and CS 23021. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 52202 INTRODUCTION TO NUMERICAL COMPUTING II

Cross-listed with MATH 52202. A continuation of CS 52201. Topics include interpolation numerical differentiation and integration and numerical solution of ordinary differential equations. Prerequisite: MATH 32044 and CS 4 52201. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 53005 INTRODUCTION TO DATABASE SYSTEMS DESIGN

An introduction to the basic theoretical aspects of database systems, file organization, search methodologies, language design and performance evaluation techniques, initial modeling concepts and their use in hierarchical, network, relational and object-oriented database designs. Prerequisite: CS 46101. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 53006 THEORY OF OBJECT-ORIENTED PROGRAMMING

In-depth course on the theory and principles of object-based and object-oriented programming using a language such as C ++. The course covers advanced topics in inheritance and interface planning, generic (type independent) programming, factors of polymorphism, structure and organization of class libraries, and object-oriented design principles. Prerequisite: CS 33001 and graduate standing.
3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 53111 STRUCTURE OF COMPILERS

Techniques used to write compilers including lexical analysis, syntax analysis, syntax directed translation, type checking, run-time environments and intermediate code generation. Prerequisite: CS 35101 and 33101; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 53202 SYSTEMS ADMINISTRATION

The setting up and day-to-day administration of multiuser multitasking systems, such as the various versions of UNIX together with the analysis of problems which can arise in these activities. Prerequisite: CS 33211; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 53203 SYSTEMS PROGRAMMING

Design, implementation and maintenance of system programs, system utilities; command interpreters, editors, file maintenance programs, text processors. Interrupt handling. Device drivers. Prerequisite: CS 33211; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 53401 SECURE PROGRAMMING

Code vulnerabilities, static code analysis, error handling, secure I/O, race conditions and mediation, handling buffer and integer overflow, handling vulnerabilities in web and database programming, privacy and cryptography, random number generators. Prerequisites: C (2.0) or better in CS 33001 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 53901 SOFTWARE ENGINEERING

An introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management and maintenance. Prerequisite: CS 33001; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 54201 ARTIFICIAL INTELLIGENCE

Examines goals, problems, concepts and methods of artificial intelligence heuristic versus algorithmic methods, natural language comprehension, theorem proving. Prerequisite: CS 33001; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 55111 PRINCIPLES OF VLSI DESIGN

Introduction to the design of VLSI chips, with emphasis on FPLD-based design. Students will design various chips using standard industry logic synthesis tools. Prerequisite: CS 35101; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 55201 COMPUTER COMMUNICATION NETWORKS

An introduction to net-centric systems, data communication protocols, network architectures, routing protocols, network management, congestion control, network security, compression techniques, mobile and wireless networks, and WWW as an example of a client server system. Prerequisite: CS 33211; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 55231 INTERNET ENGINEERING

Design fundamentals and working principles of internet systems at the IP layer and above. DNS, inter-domain routing, internet client server programming, application level protocols (HTTP, XML etc.) Web server architecture, browser, internet security, and multimedia serving. Prerequisite: CS 33001, 53201 and 55201; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 56101 DESIGN AND ANALYSIS OF ALGORITHMS

Introduction to algorithmic concepts, practical techniques for the design and analysis of algorithms; searching, sorting, integer and floating point arithmetic; vector and matrix manipulation. Prerequisite: CS 33001 and MATH 12003. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 56201 INTRODUCTION TO THE THEORY OF AUTOMATA, FORMAL LANGUAGES AND COMPUTATION

A study of alphabets, strings, languages; regular languages and expressions, deterministic and nondeterministic finite automata, context free-grammars and languages, pushdown automata, turning machines and complexity theory. Prerequisite: CS 23022 and MATH 12003; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 57101 COMPUTER GRAPHICS

Display file generation, interactive graphics techniques, display devices, three-dimensional graphics, graphic system design, graphic languages and applications in man-machine communications. Prerequisite: CS 33001. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 57105 WEB DESIGN AND PROGRAMMING I

A joint computer science (CS) and visual communication design (VCD) course on web concepts and high quality web design: CS, VCD, principles, tools, architecture, presentation design and creation of web sites by teamwork. Web based instruction is used. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Computer Science Department

CS 57106 WEB DESIGN AND PROGRAMMING II

A joint computer science and visual communication design course on advanced web techniques and multimedia Web design: Web servers, security, advanced design, JAVA servlets, applets, database connectivity, site maintenance, creation of actual web sites by teamwork. Prerequisite: CS 4/57105 or VCD 4/56000 and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Computer Science Department

CS 57107 WEB DESIGN AND PROGRAMMING STUDIO

A joint computer science (CS) and visual communication design (VCD) project course. Comprehensive experience on aspects of website creation, hosting, maintenance and management. Creative combination and integration of art and programming are emphasized. Prerequisite: VCD 4/56001 or CS 4/57106; graduate standing.
3.000 TO 6.000 Credit hours



6.000 Other hours
Level: Graduate
Schedule Types: Studio
Computer Science Department

CS 57201 HUMAN COMPUTER INTERACTION

Approaches the human-computer interaction as an activity of the human whose productivity is increased by the use of the computer as a tool. Examines physiology and psychology considers the structure and operation of the computer and models the interaction between the two. Prerequisite: CS 33001; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 57205 INFORMATION SECURITY

An introduction to concepts and methodology useful for information security ,as specified by the NSTISSI NO. 4011 standard from the NSA. Prerequisite: CS 33006; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 57221 INTRODUCTION TO CRYPTOLOGY

Introduction to cryptography, classical cryptology, authentication, complexity issues, encryption standards, algebraic foundations, survey of existing cryptology protocols: AES/Rijndael, block chaining, asymmetric techniques. Prerequisite: C (2.0) or better in CS 33001 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 59893 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE

Studies in special topics in computer science. Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Computer Science Department

CS 59995 SPECIAL TOPICS IN COMPUTER SCIENCE

Various special courses will be announced in the schedule of classes under this title. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 60093 VARIABLE TITLE WORKSHOP IN COMPUTER SCIENCE

Studies of special topics in computer science. Not acceptable for credit toward a graduate degree in computer science without approval of the student's adviser. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Computer Science Department

CS 60094 COLLEGE TEACHING OF COMPUTER SCIENCE

Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 60220 BIOINFORMATICS

Theory, methods and computational approaches used to interpret large volumes of Bio-Sciences information; reviews of major data repositories. An interdisciplinary research project is required. Prerequisite: Special approval and graduate standing.
4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Computer Science Department

CS 61001 STRUCTURE OF COMPUTER SCIENCE

An integrated view of the structure of computer science; algorithms, architecture, operating systems, programming languages and networking. Special emphasis on the framework of computer science and its relation to other fields. No credit for computer science majors. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 61002 ALGORITHMS AND PROGRAMMING I

An introduction to the algorithms and tools used in computer science; includes programming in a high level language. No credit for CS majors. Prerequisite: CS 61001; graduate standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 61003 ALGORITHMS AND PROGRAMMING II

Further exploration into the tools used in computer science. No credit for CS majors. Prerequisite: CS 61002; graduate standing.

4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 61092 PRACTICUM IN CS FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

This course is an alternative to IAKM 60199 for students interested in pursuing a CS thesis. Credit for IAKM 60199 or any other project course is not allowed. Not repeatable. Prerequisite: Graduate standing.
1.000 TO 5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Practicum
Computer Science Department

CS 61199 THESIS I FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Thesis students must register for a minimum of 6 hours. No credit for CS students. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Computer Science Department

CS 61299 THESIS II FOR INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT STUDENTS

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: CS 61199.
1.000 TO 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Computer Science Department

CS 62201 NUMERICAL COMPUTING I

Numerical methods for scientific computing emphasizing modern mathematical software and environments. Computer arithmetic and errors, linear systems of equations, least squares data fitting, eigenvalues and singular values, nonlinear systems optimization. Prerequisite: MATH 21001 and MATH; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 62202 NUMERICAL COMPUTING II

A continuation of CS 6/72201. Interpolation, numerical integration and differentiation, ordinary differential equations initial and boundary value problems, partial differential equations, fast Fourier transforms and applications. Prerequisite: MATH 52045 and CS 6/72201; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

**CS 62251 NUMERICAL ANALYSIS I**

Cross-listed with MATH 6/72251. Floating point computation rounding error analysis conditioning. Interpolation (polynomial trigonometric spline). Numerical quadrature (newton cotes gauss), extrapolation romberg integration. Prerequisite: MATH 4 52002 and graduate standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 62252 NUMERICAL ANALYSIS II

Cross-listed with MATH 6/72252. Numerical solution of linear systems of equations (lu factorization error analysis). Least squares orthogonalization methods. Algebraic eigenvalue problems qr algorithm singular value decomposition. Prerequisite: MATH 4 51021 and CS 6 72251. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 62261 NUMERICAL SOLUTION OF ORDINARY DIFF EQS

Cross-listed with MATH 6/72261. Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementations software and analysis. Prerequisite: MATH 32044 and CS 4/52202. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 62262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS

Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic hyperbolic and parabolic partial differential equations. Prerequisite: MATH 4/ 52045 and CS 4/52202. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS

Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods. Prerequisite: MATH 4/51021 and CS 4/52202. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS

Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software. Prerequisite: MATH 4/52041 and CS 4/52202. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63005 ADVANCED DATABASE SYSTEMS DESIGN

Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques. Prerequisite: CS 4/53005 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63015 DATA MINING TECHNIQUES

Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining. Prerequisite: CS 53005 and MATH 50011; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63101 ADVANCED PROGRAMMING LANGUAGES

Topics such as programming language design problems, formal semantics, language definitions, functional programming, specialized or very high-level languages, correctness considerations, parallelism and concurrency. Prerequisite: CS 4/53101 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63111 ADVANCED COMPILER DESIGN

Explores implementation issues such as optimization techniques, code generation, error handling, automatic compiler generation. May include compiler project parallelization. Prerequisite: CS 4/53111 and 4/55101. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63201 ADVANCED OPERATING SYSTEMS

Introduction to distributed systems, inter-process communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems. Prerequisite: CS 4/53201 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63301 PARALLEL AND DISTRIBUTED COMPUTING

Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using SIMD, SPMD, MIMD and associative computing; parallel and distributed architecture using existing machines as case studies. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63304 CLUSTER COMPUTING

This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for clusters and application performance and programming of clusters. Prerequisite: CS 55201; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63901 SOFTWARE ENGINEERING METHODOLOGIES

Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation; reuse; and metrics. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63902 SOFTWARE EVOLUTION

Methods and techniques supporting later lifecycle activities, including software testing and maintenance, reuse and reverse engineering. Prerequisite: CS 63901; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 63903 SOFTWARE VISUALIZATION

Methods and techniques to support the visualization of software to support maintenance, re-engineering and reverse



engineering of large scale systems using information visualization and program understanding techniques. Prerequisite: CS 63901; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 64101 COMPUTER ALGEBRA I

Algorithms for integer and polynomial arithmetic modular and padic algorithms, GCD computation, factorization and resultants. Prerequisite: CS 4/56101.

Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 64102 COMPUTER ALGEBRA II

Additional concepts basic to computer algebra including linear algebra algorithms, factoring, parallel algorithms, interface to numerical computing, graphics, algebraic and transcendental extensions and pattern matching. Prerequisite: CS 6/74101 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 64201 ADVANCED ARTIFICIAL INTELLIGENCE

Additional topics in AI such as logic programming, advanced problem-solving systems, understanding natural languages, vision, learning, plan-generating systems.

Prerequisite: CS 4/ 54201 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 64301 PATTERN RECOGNITION PRINCIPLES

Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, non-supervised learning, sequential learning and application. Prerequisite: CS 4/57101 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 64401 IMAGE PROCESSING

This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis. Prerequisite: CS 4/56101 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Computer Science Department

CS 65101 ADVANCED COMPUTER ARCHITECTURE

System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors. Prerequisite: CS 4/ 55101 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 65201 INTERCONNECTION NETWORKS

This course provides a comprehensive coverage of interconnection as networks in switching principles for high-performance computing and blocking communications. It covers the theory, architecture, implementation, and performance analysis of switching systems for multiprocessors, broadband networks and optical communications. Prerequisite: CS 4/55201 or 6/75101; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 65202 ADVANCED COMMUNICATION NETWORKS

This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing. Prerequisite: CS 4/55201 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 65203 WIRELESS AND MOBILE COMMUNICATION NETWORKS

Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems. Prerequisite: CS 55201; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 65207 SYSTEM SIMULATION

Course provides the principles behind simulation techniques for solving problems using computers. It covers the evaluation process of the potential performance of a system with alternative architectural design before it becomes operational. It also covers trade-off analysis techniques for various operating strategies in systems such as computers, networks and devices.

Prerequisite: CS 33211 or 45201; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 65208 DISTRIBUTED MULTIMEDIA LANGUAGES AND SYSTEMS

MPEG standards, multimedia formats, 3-D object and movement representation, multimedia storage, QoS maintenance, transmission and buffering, multimedia clocks and synchronization, content based indexing, matching and retrieval of 2-D and 3-D objects, XML based distributed multimedia languages, synchronous and reactive languages. Prerequisite: CS 33001 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 65231 INTERNET SYSTEMS AND APPLICATIONS

Course initiates the research frontiers of the internet and web technology. It covers selected emergent systems and dominant applications of the internet. The recent offerings included infrastructure, measurements, and security and discussed systems such as caching infrastructure, content distribution network, inter-autonomous system trust management, etc. Prerequisite: CS 55201, 55231; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 65301 SYSTEM MODELING AND PERFORMANCE EVALUATION

Provides a detailed study of queuing, network models and their application to operating systems, computer time sharing and multi access systems. Prerequisite: MATH 4/50012 and CS 4/53201. Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 66101 ADVANCED TOPICS IN ALGORITHMS

Advanced algorithms, fast fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, gcd, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching. Prerequisite: CS 4/56101 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department



CS 66105 PARALLEL AND DISTRIBUTED ALGORITHMS

Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms. Prerequisite: CS 4/56101 or 63301; graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 66110 COMPUTATIONAL GEOMETRY

Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems. Prerequisite: CS 56101; graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 66120 EVOLUTIONARY COMPUTATION

Introduction to evolutionary computation techniques for optimization, learning and design. Topics include natural and artificial evolution, chromosome representations, search operators, co-evolution, constraint handling techniques, niching and speciation, classifier systems and theoretical foundations. Prerequisite: CS 56101; graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 66202 THEORY OF COMPUTATION

Representative problems and algorithms for various complexities, recursion theory basics, complexity such as time, space, non-determinism; relationships between complexities and hard sets. Prerequisite: CS 4/56101 and CS 4/56201. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 67101 ADVANCED COMPUTER GRAPHICS

In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games. Prerequisite: CS 4/ 57101 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 67301 SCIENTIFIC VISUALIZATION

Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system. Prerequisite: CS 23021 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 69098 RESEARCH

Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade or "S" is given. Repeated registration permitted.

Prerequisite: Graduate standing.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Computer Science Department

CS 69191 MASTER'S SEMINAR

Seminar for masters students to present and discuss computer science related research and academics. Masters students are required to take at least 2 credit hours for completion of degree and make at least one presentation of project work or research. The course may be taken multiple times but only two credits count towards the masters degree. Prerequisite: Admission to masters program.

1.000 TO 2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Seminar

Computer Science Department

CS 69199 THESIS I

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Computer Science Department

CS 69299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: CS 69199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Computer Science Department

CS 69995 SPECIAL TOPICS IN COMPUTER SCIENCE

Special topics in computer science.

Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 70094 COLLEGE TEACHING OF COMPUTER SCIENCE

Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included. Prerequisite: Doctoral standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 72201 NUMERICAL COMPUTING I

Numerical methods for scientific computing emphasizing modern mathematical software and environments. Computer arithmetic and errors, linear systems of equations, least squares data fitting, eigenvalues and singular values, nonlinear systems, optimization. Prerequisite: MATH 21001 and MATH 22005; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 72202 NUMERICAL COMPUTING II

A continuation of CS 6/72201. Interpolation, numerical integration and differentiation, ordinary differential equations initial and boundary value problems, partial differential equations, fast Fourier transforms and applications. Prerequisite: MATH 52045 and CS 6/72201; doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 72251 NUMERICAL ANALYSIS I

Floating-point computation, rounding-error analysis, conditioning. Interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss), Extrapolation, Romberg integration. Prerequisite: MATH 4/52002 and doctoral standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 72252 NUMERICAL ANALYSIS II

Numerical solution of linear systems of equations (LU, factorization, error analysis). Least-squares orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition. Prerequisite: MATH 4/51021 and CS 6/72251. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

**CS 72261 NUMERICAL SOLUTION OF ORDINARY DIFF EQS**

Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementations software and analysis. Prerequisite: MATH 32044 and CS 4/52202. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 72262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS

Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations. Prerequisite: MATH 4/ 52045 and CS 4/52202. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS

Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods. Prerequisite: MATH 4/51021 and CS 4/52202. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS

Construction and analysis of numerical methods for systems of non linear algebraic equations and optimization problems. Numerical implementation and software. Prerequisite: MATH 4/52041 and CS 4/52202. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73005 ADVANCED DATABASE SYSTEMS DESIGN

Introduction to a variety of advanced database topics and on-going trends in modern database systems. The course includes advanced issues of object-oriented database, XML, advanced client server architecture and distributed database techniques. Prerequisite: CS 4/53005 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73015 DATA MINING TECHNIQUES

Concepts and techniques of data mining. Data mining is a process of discovering information from a set of large databases. This course takes a database perspective on data mining. Prerequisite: CS 53005 and MATH 50011 or equivalent doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73101 ADVANCED PROGRAMMING LANGUAGES

Topics such as programming language design problems, formal semantics, language definitions, functional programming, specialized or very high-level languages, correctness considerations, parallelism and concurrency. Prerequisite: CS 4/53101 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73111 ADVANCED COMPILER DESIGN

Explores implementation issues such as optimization techniques, code generation, error handling, automatic compiler generation. May include compiler project parallelization. Prerequisite: CS 4/53111 and 4/55101. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73201 ADVANCED OPERATING SYSTEMS

Introduction to distributed systems, inter-process communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems. Prerequisite: CS 4/53201 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73301 PARALLEL AND DISTRIBUTED COMPUTING

Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using SIMD, SPMD, MIMD and, associative computing parallel and distributed architecture using existing machines as case studies. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73304 CLUSTER COMPUTING

This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for clusters and application performance and programming of clusters. Prerequisite: CS 55201; doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73901 SOFTWARE ENGINEERING METHODOLOGIES

Software process models; modeling languages; software process improvement ;requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation reuse; and metrics. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73902 SOFTWARE EVOLUTION

Methods and techniques supporting later lifecycle activities, including software testing and maintenance reuse and reverse engineering. Prerequisite: CS 73901; doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 73903 SOFTWARE VISUALIZATION

Methods and techniques to support the visualization of software to support maintenance, re- engineering and reverse engineering of large scale systems using information visualization and program understanding techniques. Prerequisite: CS 63901; doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 74101 COMPUTER ALGEBRA I

Algorithms for integer and polynomial arithmetic modular and p-adic algorithms, GCD computation factorization and resultants. Prerequisite: CS 4 56101. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Computer Science Department

CS 74102 COMPUTER ALGEBRA II

Additional concepts basic to computer algebra including linear algebra algorithms, factoring, parallel algorithms, interface to numerical computing, graphics, algebraic and transcendental extensions and pattern matching. Prerequisite: CS 6/74101 and doctoral standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 74201 ADVANCED ARTIFICIAL INTELLIGENCE

Additional topics in AI such as logic programming, advanced problem-solving systems, understanding natural languages, vision, learning, plan generating systems. Prerequisite: CS 4/ 54201 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 74301 PATTERN RECOGNITION PRINCIPLES

Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, non-supervised learning, sequential learning and application. Prerequisite: CS 4/57101 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 74401 IMAGE PROCESSING

This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis. Prerequisite: CS 4/56101 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 75101 ADVANCED COMPUTER ARCHITECTURE

System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors. Prerequisite: CS 4/ 55101 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 75201 INTERCONNECTION NETWORKS

This course provides a comprehensive coverage of interconnection as networks in switching principles for high-performance computing and blocking communications. It covers the theory, architecture, implementation, and performance analysis of switching systems for multiprocessors, broadband networks and optical communications. Prerequisite: CS 4/55201 or 6/75101; doctoral standing.
3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 75202 ADVANCED COMMUNICATION NETWORKS

This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and internet routing. Prerequisite: CS 4/55201 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 75203 WIRELESS AND MOBILE COMMUNICATION NETWORKS

Examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. Course covers the architecture and the interactions among different functional units in wireless and mobile systems. Prerequisite: CS 55201; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 75207 SYSTEM SIMULATION

Course provides the principles behind simulation techniques for solving problems using computers. It covers the evaluation process of the potential performance of a system with alternative architectural design before it becomes operational. It also covers trade-off analysis techniques for various operating strategies in systems such as computers networks and devices. Prerequisite: CS 33211 or 45201; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 75208 DISTRIBUTED MULTIMEDIA LANGUAGES AND SYSTEMS

MPEG standards, multimedia formats, 3-D object and movement representation, multimedia storage, QoS maintenance, transmission and buffering, multimedia clocks and synchronization, content based indexing, matching and retrieval of 2-D and 3-D objects, XMLI based distributed multimedia languages, synchronous and reactive languages. Prerequisite: CS 33001 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 75231 INTERNET SYSTEMS AND APPLICATIONS

Course initiates the research frontiers of the internet and web technology. It covers selected emergent systems and dominant applications of the internet. The recent offerings included infrastructure, measurements and security and discussed systems such as caching infrastructure, content distribution network, inter-autonomous system trust management, etc. Prerequisite: CS 55201, 55231; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 75301 SYSTEM MODELING AND PERFORMANCE EVALUATION

Provides a detailed study of queuing, network models and their application to operating systems, computer time sharing and multi-access systems. Prerequisite: MATH 4/50012 and CS 4/53201. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 76101 ADVANCED TOPICS IN ALGORITHMS

Advanced algorithms, fast Fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, GCD, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching. Prerequisite: CS 4/56101 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 76105 PARALLEL AND DISTRIBUTED ALGORITHMS

Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation, using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms. Prerequisite: CS 4/56101 or 6/73301; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 76110 COMPUTATIONAL GEOMETRY

Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational geometry studies algorithms for geometric problems. Prerequisite: CS 56101; doctoral standing.
3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 76120 EVOLUTIONARY COMPUTATION

Introduction to evolutionary computation techniques for optimization, learning and design. Topics include natural and artificial evolution, chromosome representations, search operators, co-evolution, constraint handling techniques, niching and speciation, classifier systems and theoretical foundations. Prerequisite: CS 56101; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 76202 THEORY OF COMPUTATION

Representative problems and algorithms for various complexities, recursion theory basics, complexity such as time, space, non-determinism; relationships between complexities and hard sets. Prerequisite: CS 4/56101 and CS 4/56201. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 77101 ADVANCED COMPUTER GRAPHICS

In-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, non-photorealistic rendering, computer animation and computer games. Prerequisite: CS 4/ 57101 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 77301 SCIENTIFIC VISUALIZATION

Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system. Prerequisite: CS 23021 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Computer Science Department

CS 79995 SPECIAL TOPICS IN COMPUTER SCIENCE

Special topics in computer science. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Computer Science Department

CS 89098 RESEARCH

Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Prerequisite: Doctoral standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Computer Science Department

CS 89191 DOCTORAL SEMINAR

Seminar for doctoral students to present and discuss computer science related research and academics. Doctoral students are required to take at least 3 credit hours for completion of degree and make at least two presentations of project work or research. The course may be taken multiple times but only two credits count towards the doctoral degree. Prerequisite: Admission to doctoral program.
1.000 TO 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Computer Science Department

CS 89199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Special approval and doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Computer Science Department

CS 89299 DISSERTATION II

Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: CS 89199 and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Computer Science Department

CS 89991 RESEARCH SEMINAR IN COMPUTER SCIENCE

Research seminar on current research in computer science. Prerequisite: Special approval; doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Computer Science Department

Career Technical Teacher Education (CTTE)

CTTE 36014 EVALUATION PRACTICES IN CAREER TECHNICAL EDUCATION

Study and construction of evaluation devices for use in laboratory and related

technology courses, test construction, standardized and non-standardized test procedures. This course includes 10 field/clinical hours. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 36020 OCCUPATIONAL EXPERIENCE: TECHNOLOGY

Written examination covering technology of a specific occupation. Prerequisite: school permission.
12.000 Credit hours
12.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 36021 OCCUPATIONAL EXPERIENCE: MANIPULATIVE

Manipulative examination covering competencies and techniques of an occupation. Prerequisite: school permission.
12.000 Credit hours
12.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 40093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION

Topics of special interest to students desiring to intensify their knowledge in a particular area of career technical education. Prerequisite: school permission.
1.000 TO 5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

CTTE 45372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS

Exploration of issues and trends unique to specific career technical education subjects. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 45377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES

Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI)



background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 46001 ORGANIZATION OF CAREER AND TECHNICAL EDUCATION

Study of the principles and subject areas related to career and technical education at middle Department, secondary and adult education levels. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies
Course Attributes: Writing Intensive Course

CTTE 46002 IN-SERVICE TEACHING

Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 46015 METHODS OF CAREER AND TECHNICAL EDUCATION

Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 46017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION

Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 46018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION

Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education programs. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 46019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS

Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development, servicing the job station, coordinating classroom and work experience. A study of important linkage to local business/industry and education support agencies for career and technical development. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 46020 CURRICULUM GUIDE: DESIGN AND APPLICATION

Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 46031 STUDENT TEACHING IN CAREER TECHNICAL EDUCATION

Provides a 12 week student teaching experience in a career-technical program setting. See "student teaching" section in the undergraduate catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Eligible for admission to student teaching; and advanced study; and major in career and technical teacher education (CTTE) or integrated business education (IBED) or family and consumer sciences education

(FCSE) or marketing education (MKT) or trade and industrial education (TIED).

Corequisite: CTTE 49525.
9.000 Credit hours
24.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CTTE 46092 INTERNSHIP, PRACTICUM AND FIELD EXPERIENCE IN CAREER TECHNICAL EDUCATION

Supervised internship, practicum or field experience in specific occupations. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

Prerequisite: Permission.
2.000 TO 5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CTTE 46095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION

Specialized offerings in response to emerging or selected program needs in career-technical education. Prerequisite: None.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 46096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION

An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member. Prerequisite: None.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

CTTE 46192 PRACTICUM: OCCUPATIONAL

Supervised work experience in occupation to obtain initial experience or to update skills. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Permission.
1.000 TO 6.000 Credit hours
6.000 Other hours



Level: Undergraduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CTTE 49525 INQUIRY INTO PROFESSIONAL PRACTICE

Interdisciplinary inquiry into career/technical teaching as a professional practice in education; emphasis on teacher as disciplined investigator. Final course of four. Combination of themes utilization of teaching learning technologies. Prerequisite: Admission to advanced study. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 50093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION

Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education. Prerequisite: Graduate standing and special approval. 1.000 TO 5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

CTTE 55372 ISSUES IN CAREER TECHNICAL EDUCATION SUBJECTS

Exploration of issues and trends unique to specific career-technical education subjects. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 55377 CAREER AND TECHNICAL EDUCATION: ADVANCED METHODOLOGIES

Selection, organization and presentation of subject matter pertaining to specific subjects in career and technical education. Emphasis on methods and techniques through theory and practice. Course includes 30 field clinical hours. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 56001 ORGANIZATION OF CAREER AND TECHNICAL EDUCATION

Study of the principles and subject areas related to career and technical education at middle school secondary and adult education levels. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 56002 IN-SERVICE TEACHING

Overview of teaching process in career technical teacher education. Emphasizes techniques of skill development and assessment, includes organizing for instruction, individual behavior, organizational relationships and application steps. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 56015 METHODS OF CAREER AND TECHNICAL EDUCATION

Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 56017 STUDENT-CENTERED LEADERSHIP IN CAREER TECHNICAL EDUCATION

Study of the role of leadership and youth organizations in Career Technical Education with emphasis on the organization and purpose of student leadership and the role of the advisor related to leadership in career technical education. Prerequisite: none. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 56018 DISADVANTAGED YOUTH IN CAREER TECHNICAL EDUCATION

Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education programs. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 56019 COORDINATION OF CAREER TECHNICAL COOPERATIVE EDUCATION PROGRAMS

Reviews duties, problems, techniques of home, school and work coordination. Internship site selection, job development ,servicing the job station, coordinating

classroom and work experience. A study of important linkage to local business/ industry and education support agencies for career and technical development. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 56020 CURRICULUM GUIDE: DESIGN AND APPLICATION

Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field clinical hours. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 56031 STUDENT TEACHING IN CAREER TECHNICAL EDUCATION

Provides a 12 week student teaching experience in a career-technical program setting. See "student teaching" section in the graduate catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Eligible for admission to student teaching; graduate standing; and major in career and technical teacher education (CTTE) or trade and industrial education (TIED). Corequisite: CTTE 59525. 9.000 Credit hours
24.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CTTE 56092 INTERNSHIP, PRACTICUM AND FIELD EXPERIENCE IN CAREER TECHNICAL EDUCATION

Supervised internship, practicum or field experience in specific occupations. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing and special approval. 2.000 TO 5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies


CTTE 56095 SPECIAL TOPICS IN CAREER TECHNICAL EDUCATION

Specialized offerings in response to emerging or selected program needs in career-technical education. Prerequisite: Graduate standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 56096 INDIVIDUAL INVESTIGATION IN CAREER TECHNICAL EDUCATION

An individual investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

CTTE 56192 PRACTICUM: OCCUPATIONAL

Supervised work experience in occupation to obtain initial experience or to update skills. Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

CTTE 59525 INQUIRY INTO PROFESSIONAL PRACTICE

Interdisciplinary inquiry into career/technical teaching as a professional practice in education; emphasis on teacher as disciplined investigator. Final course of four. Combination of themes; utilization of teaching/learning technologies. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing and special approval.
2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Teaching, Learning and Curriculum Studies

CTTE 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements

are met. Prerequisite: CTTE 60199 and graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Teaching, Learning and Curriculum Studies

CTTE 66001 PRINCIPLES AND PRACTICES IN CAREER TECHNICAL EDUCATION

Study of principles, current practices and trends relating to modern programs of career technical education and relationships to the total plan of public education. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 66003 ANALYSIS OF HUMAN RESOURCE DEVELOPMENT

Provides analysis of human resource development from global, national state and local perspectives including social economic political and emotional influences. Includes the application of the contemporary workforce to engage in lifelong learning to keep career and technical skills updated. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 66004 PROGRAM EVALUATION IN CAREER TECHNICAL EDUCATION

Designed to provide the skills and knowledge necessary to evaluate the effectiveness and efficiency of career-technical education curriculum programs personnel. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 66005 SPECIAL POPULATIONS IN CAREER TECHNICAL EDUCATION

A study of the special populations student in career technical education programs emphasizing characteristics, curriculum modification, instruction and job placement. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 66095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION

Specialized offerings in response to emerging or selected program needs in

career-technical education. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 66096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION

An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member. Prerequisite: Graduate standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

CTTE 70093 VARIABLE TOPIC WORKSHOP IN CAREER TECHNICAL EDUCATION

Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education. Prerequisite: Doctoral standing and special approval.
1.000 TO 5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

CTTE 76095 SPECIAL TOPICS IN CAREER-TECHNICAL EDUCATION

Specialized offerings in response to emerging or selected program needs in career-technical education. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

CTTE 76096 INDIVIDUAL INVESTIGATION IN CAREER-TECHNICAL EDUCATION

An investigation into problems and topics in career technical education. The investigation is pursued on an individual basis with an assigned faculty member. Prerequisite: Doctoral standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

CTTE 86098 ADVANCED RESEARCH IN CAREER-TECHNICAL EDUCATION

Student pursues an individual research project on a specialized career technical education topic with approval and under the



direction of an instructor. Prerequisite: Doctoral standing and special approval.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Teaching, Learning and Curriculum Studies

Cultural Foundations (CULT)

CULT 20091 PREPROFESSIONAL SEMINAR IN EDUCATIONAL STUDIES

Introduction to the nature and scope of educational service delivery across settings, and to the social and cultural foundations of educational policies and programs. Open to any university student and to those considering alternative careers in education. Prerequisite: None.
2.000 TO 4.000 Credit hours
2.000 TO 4.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Foundations, Leadership and Administration

CULT 29535 EDUCATION IN A DEMOCRATIC SOCIETY

Students utilize readings, explore themes, broadly explore purposes of school in society and what knowledge, dispositions and performances are necessary to be a successful teacher today. Prerequisites: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration
Course Attributes: TAG Education

CULT 39539 INTRODUCTION TO THE PHILOSOPHY OF EDUCATION

An introduction to the philosophical analysis of educational problems focusing on the goals of education and the Department's role in achieving these goals. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 39595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS

Directed reading and/or research of special interest or need to small groups of students in cultural foundations. Planned with and directed by a faculty member. IP grade permissible. Prerequisite: none.
2.000 TO 4.000 Credit hours
2.000 TO 4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 39596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS

Directed independent reading and/or research of special interest or need in student program. Planned with and directed by a faculty member. Prerequisite: special approval.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Foundations, Leadership and Administration

CULT 40093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS

Variable topics; designed to respond to specialized needs of various groups within the context of trends issues and problems in the educational foundations disciplines. S u graded. Prerequisite: special approval.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Foundations, Leadership and Administration

CULT 49570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION

Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st century educational leadership. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 50093 VARIABLE TITLE WORKSHOP IN CULTURAL FOUNDATIONS

Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours. Prerequisite: Graduate standing and special approval.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Foundations, Leadership and Administration

CULT 59570 SOCIAL FOUNDATIONS OF MULTICULTURAL EDUCATION

Explores the history, social context, and issues in multicultural education (formal PK-12) in the U.S. Students gain an appreciation of the challenges of equalizing opportunity of educational achievement, an understanding that is essential for 21st

century educational leadership. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 60199 THESIS I

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing and special approval.
2.000 TO 6.000 Credit hours
2.000 TO 6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Foundations, Leadership and Administration

CULT 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: CULT 60199.
Graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Foundations, Leadership and Administration

CULT 65530 FOUNDATIONS OF EDUCATION AND HUMAN SERVICES

Inquiry into the assumptions and implications of educational policies and practices in education and human service settings through the application of historical, philosophical and sociological perspectives. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 66531 PROFESSIONAL PRACTICE IN A MULTICULTURAL SOCIETY

Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69521 PROFESSIONAL PRACTICE IN A MULTICULTURAL SOCIETY

Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice. Prerequisite: graduate standing.



3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69522 ETHICS IN PROFESSIONAL PRACTICE

An examination of ethics in departmenting and other educational settings through foundational study and issue analysis; strong case study and professional application emphasis. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION

An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69543 HIGHER EDUCATION IN THE UNITED STATES

Examines the historical, philosophical, social, political and economic roots of current programs, policies, practices and commitments of institutions of higher education in the United States. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69560 CONTEMPORARY PHILOSOPHY OF EDUCATION

Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69564 HISTORY OF AMERICAN EDUCATION

European origins and American innovations in colonial education, rise of common Department, completion of education ladder. Emphasis is on present status and recent developments. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69565 HISTORY OF WESTERN EDUCATION

Educational ideals and practices of European and Western civilizations in their historical contexts. Evaluation of their influence on present educational thought and practice. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69567 HISTORY OF HIGHER EDUCATION

Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69568 GREAT IDEAS IN EDUCATION

An examination of major influential ideas in education through original sources from Plato to Skinner. Prerequisite: Special approval of instructor and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES

An introductory seminar to explore current foundational issues and challenges in education worldwide (non-formal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and

integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69570 MULTICULTURAL EDUCATION: THEORY AND POLICY

Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69571 GLOBALIZATION AND EDUCATION

A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 69575 ANTHROPOLOGY AND EDUCATION

Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographics, students explore the myriad ways in which "culture" has been theoretically conceptualized as well as the implications of those conceptualizations for educational inquiry and practice. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

**CULT 69591 SEMINAR IN CULTURAL FOUNDATIONS**

Variable topic seminar for advanced study of specialized topics and areas; in cultural foundations; emphasis on theory and research findings as related to educational practice. Prerequisite: Graduate standing and special approval.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Foundations, Leadership and Administration

CULT 69592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS

Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member. Prerequisite: Graduate standing and special approval.

2.000 TO 6.000 Credit hours

2.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

CULT 69595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS

Specific topic course offering in response to emerging student or program needs in cultural foundations of education.

Prerequisite: graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

CULT 69596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS

Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor. Prerequisite: Graduate standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Foundations, Leadership and Administration

CULT 69598 RESEARCH IN CULTURAL FOUNDATIONS

Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor. Prerequisite: Graduate standing and special approval.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Foundations, Leadership and Administration

CULT 70093 VARIABLE TOPIC WORKSHOP IN CULTURAL FOUNDATIONS

Offered on request of school system.

Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours. Prerequisite: doctoral standing and special approval.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Foundations, Leadership and Administration

CULT 79510 PHILOSOPHY OF EDUCATION

Analysis of selected philosophies of education through examination of philosophical problems of education.

Prerequisite: CULT 6/79560 or 6/79568.

Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

CULT 79530 MULTICULTURAL THEORIES AND SCHOLARSHIP IN EDUCATION

An investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

CULT 79543 HIGHER EDUCATION IN THE UNITED STATES

Examines the historical, philosophical, social, political and economic roots of current programs, policies, practices and commitments of institutions of higher education in the United States.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

CULT 79552 LEGAL FOUNDATIONS OF EDUCATION

The impact of the federal constitution, statutes and case law on public education is studied. Historical intent and current application of related laws are included.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

CULT 79560 CONTEMPORARY PHILOSOPHY OF EDUCATION

Explores a range of contemporary philosophical perspectives on the moral and political dimensions of education. Students will be introduced to the philosophical frameworks through which these questions are discussed within the field of philosophy of education and they will have opportunity to engage these debates in the course of carefully structured writing assignments.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

CULT 79564 HISTORY OF AMERICAN EDUCATION

European origins and American innovations in colonial education, rise of common Department, completion of education ladder. Emphasis is on present status and recent developments. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

CULT 79565 HISTORY OF WESTERN EDUCATION

Educational ideals and practices of European and Western civilizations in their historical contexts. Evaluation of their influence on present educational thought and practice. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

CULT 79567 HISTORY OF HIGHER EDUCATION

Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American Higher Education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration



CULT 79568 GREAT IDEAS IN EDUCATION

An examination of major influential ideas in education through original sources from Plato to Skinner. Prerequisite: Special approval of instructor and doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 79569 INTERNATIONAL EDUCATION: FOUNDATIONAL ISSUES

An introductory seminar to explore current foundational issues and challenges in education worldwide (non-formal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability. Gaining a broad understanding of the place of education in a rapidly changing world is essential for 21st century educational leadership and the formation of constructive policies for the future of both developed and developing countries. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 79570 MULTICULTURAL EDUCATION: THEORY AND POLICY

Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 79571 GLOBALIZATION AND EDUCATION

A multi-disciplinary exploration of the impact of globalization/localization on the delivery and uses of education and the dynamics of power and resistance in globalized education. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 79575 ANTHROPOLOGY AND EDUCATION

Students explore the contributions that cultural and social anthropologists have made to the study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographies, students explore the myriad ways in which "culture" had been theoretically conceptualized, as well as the implications of those conceptualizations for educational inquiry and practice. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 80085 LEGAL RESEARCH IN EDUCATION

Methods of legal research, case analysis and a "uniform system of citation" are studied. Prerequisite: CULT 79552 and doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 80090 DOCTORAL RESIDENCY SEMINAR

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Foundations, Leadership and Administration

CULT 80091 SEMINAR: GREAT ISSUES IN EDUCATION

Interdisciplinary review of current great issues in education that are catalogs for presentation after discussion with membership of the course. Prerequisite: Open to doctoral students from any field. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Foundations, Leadership and Administration

CULT 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of

which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Doctoral standing and special approval. 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Foundations, Leadership and Administration

CULT 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: Doctoral standing; CULT 80199. 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Foundations, Leadership and Administration

CULT 85535 INTERPROFESSIONAL STUDIES

Comprehensive analysis of issues affecting professional practice in education and human service resource settings. Examination of questions related to inter-professional collaboration on policy, research and practice. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 89571 COMPARATIVE AND INTERNATIONAL EDUCATION

Comparative analysis of contemporary educational policies and structures in large- and small scale societies throughout the world. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 89581 PROSEMINAR IN CULTURAL FOUNDATIONS

Doctoral seminar to familiarize PhD students with cultural and social foundations of education as a field of study so that they may locate their inquiry within the relevant knowledge base and academic disciplines that comprise the cultural foundations of education. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 89582 SOCIAL PERSPECTIVES OF EDUCATION

Examines selected social factors that influence the development of educational



policies and patterns of research relating to school and non-school educational settings. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 89591 SEMINAR IN CULTURAL FOUNDATIONS

Variable topic seminar for advanced study of specialized topics and areas in cultural foundations; emphasis on theory and research findings as related to educational practice. Prerequisites: Doctoral standing. 1.000 TO 5.000 Credit hours
1.000 TO 5.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Foundations, Leadership and Administration

CULT 89592 ADVANCED PRACTICUM AND INTERNSHIP IN CULTURAL FOUNDATIONS

Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member. Prerequisite: doctoral standing and special approval. 2.000 TO 6.000 Credit hours
2.000 TO 6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Foundations, Leadership and Administration

CULT 89595 SPECIAL TOPICS IN CULTURAL FOUNDATIONS

Specific topic course offering in response to emerging student or program needs in cultural foundations of education. Prerequisite: doctoral standing. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

CULT 89596 INDIVIDUAL INVESTIGATION IN CULTURAL FOUNDATIONS

Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor. Prerequisite: doctoral standing and special approval. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Foundations, Leadership and Administration

CULT 89598 RESEARCH IN CULTURAL FOUNDATIONS

Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor. Prerequisite: doctoral standing and special approval.

1.000 TO 15.000 Credit hours
1.000 TO 15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Foundations, Leadership and Administration

Dance (DAN)

DAN 17001 STUDIO MODERN I

Practice of basic modern dance technique. Open to all university students. Prerequisite: None. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17002 STUDIO MODERN DANCE II

Exploration of modern dance technique foundations and improvisation with emphasis on the movement and performing qualities of modern dance. Open to all university students. Prerequisite: DAN 17001. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17004 STUDIO JAZZ I

Practice of basic jazz techniques. Open to all university students. Prerequisite: None. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17005 STUDIO JAZZ II

Continuation of jazz dance technique foundations with emphasis on more advanced dance combinations. Open to all university students. Prerequisite: DAN 17004. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17007 STUDIO TAP I

Basic tap steps and combinations with varying sound intensities and rhythms. Open to all university students. Prerequisite: None. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17008 STUDIO TAP II

Continuation of tap dance technique foundations with emphasis on more advanced dance combinations. Prerequisite: DAN 17007. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio

Department: Theatre and Dance

DAN 17009 STUDIO TAP III

Advanced tap dance techniques with emphasis on clarity, speed and performance skills. Repeatable for a total of 8 hours. Prerequisite: DAN 17008. 1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17010 STUDIO BALLET I

Introduction to the foundations of ballet placement, vocabulary and movement for the beginner. Open to all university students. Prerequisite: None. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17011 STUDIO BALLET II

Continuation of ballet technique foundations with emphasis on more advanced dance combinations. Open to all university students. Prerequisite: DAN 17010. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17013 STUDIO AFRICAN DANCE I

Designed to acquaint students with basic elements of African dance. Open to all university students. Prerequisite: None. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17014 STUDIO AFRICAN DANCE II

Continued development of African movement styles and rhythms. Open to all university students. Prerequisite: DAN 17013. 1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17016 STUDIO SWING DANCE I

Practice of basic swing dance movements with emphasis on social partnering skills. Open to all students. Repeatable to 2 credit hours. Prerequisite: None. 1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17049 FUNDAMENTALS OF BALLET AND MODERN DANCE

Introduction to intensive exploration of ballet and modern dance technique for non-majors with special emphasis on alignment, body awareness and movement vocabulary. Prerequisite: DAN 17001 and 17010.



2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17050 INTRODUCTION TO DANCE

Overview of modern dance as a performing art. Specifically focusing on preparation, basic knowledge and career choices. Prerequisite: Dance major and special approval.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

DAN 17051 MODERN DANCE TECHNIQUE I-A

Development of skill acquisition in basic technique, understanding and appreciation for the creative nature of dance through exposure to improvisational experiences. Prerequisite: Dance major and special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17052 BALLET I-A

Ballet techniques: pre-barre; beginning barre and beginning center work. Prerequisite: Dance major and special approval.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17053 PRINCIPLES OF DANCE MECHANICS I

The study and application of alignment and basic movement principles to dance techniques. Corequisite: DAN 17051 or 17052. Prerequisite: Dance major and special approval.
2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: TAG Arts/Humanities

DAN 17151 MODERN DANCE TECHNIQUE I-B

Continued exploration of basic modern dance technique and improvisation begun in DAN 17051. Continued study of dance innovators and their historical significance. Prerequisite: Dance major and DAN 17051 and special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 17152 BALLET I-B

Continuation of ballet techniques studied in DAN 17052. Repeatable for a total of 8

hours. Prerequisite: Dance major and DAN 17052 and special approval.

2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 27057 DANCE FOR CHILDREN

The theory and practice of children's dance in the pre-Department, elementary, middle Departments, private studio and recreation settings. Repeatable for a total of 6 hours. Prerequisite: Dance or Early Childhood Education major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

DAN 27070 INTRODUCTION TO JAZZ STYLES A

Development of basic jazz dance skills. Students must be at 20000-level technique in modern or ballet. Prerequisite: DAN 27071 or 27072 and special approval.
2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 27071 MODERN DANCE TECHNIQUE II-A

Intermediate modern dance styles emphasizing complex movement phrases. Repeatable for a total of 12 hours. Prerequisite: DAN 17051 and special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 27072 BALLET II-A

Intermediate ballet technique. Repeatable for a total of 8 hours. Prerequisite: Dance major; DAN 17152 and special approval.
2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 27074 DANCE COMPOSITION I

Movement exploration and improvisation, including developing the body as an instrument of expression. Repeatable for a total of 12 hours. Prerequisite: DAN 17151 and special approval. Corequisite: DAN 27071.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 27076 DANCE AS AN ART FORM

Survey of the various types, styles and functions of dance with emphasis on understanding dance as an art form and an expression of culture. Prerequisite: None.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: Diversity Course-Global, Kent Core-Fine Arts, Transfer Module-Fine Arts

DAN 27170 INTRODUCTION TO JAZZ STYLES B

Continued development of basic jazz dance skills. Prerequisite: DAN 27070 and special approval.
2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 27171 MODERN DANCE TECHNIQUE II-B

Continuation of intermediate level dance styles with emphasis on complex movement phrases. Repeatable for a total of 12 hours. Prerequisite: DAN 27071 and special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 27172 BALLET II-B

Continuation of intermediate ballet technique. Repeatable for a total of 8 hours. Prerequisite: DAN 27072 and special approval.
2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 27174 DANCE COMPOSITION II: ELEMENTS OF STRUCTURE

Basic principles of dance composition with attention to design, thematic material, structure, form and small groups. Prerequisite: DAN 27074 and special approval.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance
Course Attributes: TAG Arts/Humanities

DAN 37053 PRINCIPLES OF DANCE MECHANICS II

Continuation of DAN 17053. Repeatable for a total of 16 hours. Prerequisite: DAN 17053 and special approval.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

DAN 37058 METHODS AND MATERIALS OF DANCE

Theory and practice of teaching dance technique from middle school to adults with an emphasis on modern dance. Repeatable



for a total of 6 hours. Prerequisite: DAN 27057 and special approval.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

DAN 37067 BALLET III-A

Advanced ballet technique. Repeatable for a total of 8 hours. Prerequisite: DAN 27172 and special approval.

2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 37068 MODERN DANCE TECHNIQUE III-A

Advanced modern dance technique. Repeatable for a total of 15 hours. Prerequisite: DAN 27171 and special approval.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 37070 DANCE COMPOSITION III

Development of individual movement style through improvisational studies and movement manipulation exercises of structure and form resulting in a substantial solo modern dance work. Repeatable for a total of 8 hours. Prerequisite: DAN 27174 and special approval.

2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 37071 MOVEMENT NOTATION

Analyzing and recording human movement. The common aspects of movement in all forms of sports, dance and aquatics. Analysis and recording with the labanotation system. Prerequisite: Dance major and special approval.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

DAN 37167 BALLET III-B

Continuation of advanced ballet technique. Prerequisite: DAN 37067 and special approval.

2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 37168 MODERN DANCE TECHNIQUE III-B

Continuation of advanced modern dance technique. Prerequisite: DAN 37068 and special approval.

3.000 Credit hours
3.000 Other hours

Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 37170 DANCE COMPOSITION IV

Exploration of advanced composition skills in preparation for the B.F.A. senior choreography project and future choreographic endeavors. Prerequisite: DAN 37070 and special approval.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 37192 DANCE PRACTICUM

(Repeatable for a total of 4 hours) practical experience in co-curriculum dance activities under faculty supervision. Prerequisite: special approval.

1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 37271 DANCE ENSEMBLE

Participation in rehearsal, preparation and performance of public dance concerts in an established dance ensemble. Prerequisite: Dance major and special approval.

2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 47054 MODERN DANCE TECHNIQUE IV-A

Advanced technique integrating previously learned modern dance techniques and developing advanced movement phrasing. Prerequisite: DAN 37168 and special approval.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 47055 BALLET IV-A

A continuation of DAN 37167 with increasing clarity and control of movements. Prerequisite: DAN 37167.

2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 47060 PROFESSIONAL ASPECTS IN DANCE

development of pragmatic skills for entrance into professional dance careers. Emphasis on resume writing, preparation for auditions and economic survival. Prerequisite: DAN 27170 and special approval.

2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 47063 DANCE HISTORY I

History of dance from antiquity to 1900. Prerequisite: Dance major and approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

DAN 47070 JAZZ STYLE-A

Jazz style for students with advanced dance technique. Prerequisite: DAN 27170 and special approval.

2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 47093 VARIABLE TITLE WORKSHOP IN DANCE

Offered for specific professional needs. Emphasis on performance workshops. S u/graded. Prerequisite: Permission.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Theatre and Dance

DAN 47095 SPECIAL TOPICS IN DANCE

(repeatable for a total of 24 hours) offered when resources permit a topic different from existing courses. Topic to be announced when scheduled. Prerequisite: none.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

DAN 47154 MODERN DANCE TECHNIQUE IV-B

Continuation of advanced technique integrating previously learned modern dance techniques and developing advanced movement phrasing with special emphasis on performing quality and movement range. Prerequisite: DAN 47054 and special approval.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 47155 BALLET IV-B

A continuation of DAN 47055 with increasing clarity and dynamic expression. Prerequisite: DAN 47055 and special approval.

2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 47156 DANCE PRODUCTION

Study of elements involved in planning and implementing a concert. Experiential work in technical and management components. Prerequisite: Dance major and special approval.

3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

DAN 47163 DANCE HISTORY II

History of the development of concert and theatrical dance forms from 1900 to present day. Prerequisite: DAN 47063 and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: Writing Intensive Course

DAN 47170 JAZZ STYLE-B

Continuation of DAN 47070. Prerequisite: DAN 47070 and special approval.

2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 47174 SENIOR CHOREOGRAPHY PROJECT

Creation of a modern dance work to be performed with full production values in an approved setting. Prerequisite: DAN 37170 and special approval.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

DAN 47192 INTERNSHIP IN DANCE

Supervised dance apprenticeship in an approved educational setting. Prerequisite: Dance major and special approval.

1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Theatre and Dance

DAN 47193 VARIABLE TITLE WORKSHOP IN DANCE

Selected topics of interest relating to dance. Prerequisite: Junior standing and special approval.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Theatre and Dance

DAN 47196 INDIVIDUAL INVESTIGATION IN DANCE

Individual projects for dance majors. Prerequisite: Junior standing and special approval.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Theatre and Dance

DAN 47525 STUDENT TEACHING IN DANCE

This experience provides for a full semester of student teaching in the broadest range of

multi-age school settings. Prerequisite: Dance major; and admission to student teaching; and DAN 47192; and special approval.

9.000 Credit hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Theatre and Dance

Digital Sciences (DSCI)

DSCI 10010 SOCIETY, CULTURE AND THE DIGITAL SCIENCES

A survey course intended to give a broad understanding of society, culture and the digital sciences. Students understand not only the impact of digital sciences on culture and society, but also the impact of culture and society on the development and adoption of digital sciences. Topics include relationship and identify formation and maintenance, the relationship between digital science and race, gender, culture and globalization. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 10310 MY STORY ON THE WEB

A first course in understanding the Web's impact on our private and public lives. Investigates web site design, storytelling, multimedia, intellectual property, ethical considerations and social media. Students develop practical website design skills for presenting and navigating both textual and multimedia content. Students build their own website that presents their story. The website is in effect an online multimedia resume in which the student presents their accomplishments, skills, interests and objectives. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 10410 INFORMATION ETHICS AND SOCIAL RESPONSIBILITY

Investigates ethical and societal responsibility issues related to information technology including tensions between legal and ethical values; access and control of intellectual property; the US Patriot Act as it relates to private and public records; ethical vendor management; the digital divide, outsourcing, and green computing; and network security and protections (e.g., viruses, protecting minors, cyber bullying). In addition, bias in information retrieval and indexing, information seeking behaviors and professional codes of ethics are explored. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 13210 DESIGN PROCESSES AND PRINCIPLES

Introduction to the discipline of design, including general design models and procedures, rational and creative models of design, and design as problem solving. Specific design contexts are introduced including information design, graphics and visual design, architectural design and educational design. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 13410 COGNITION IN TECHNOLOGY

Introduction to the basics in human cognition as they affect technology and as technology affects human cognition. Addresses designing technologies to fit and enhance cognition, augmenting cognition with technology, and cognitive tools, as well as the impact of technology on various cognitive processes. Leverages both traditional and online course delivery.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 15310 COMPUTATIONAL THINKING AND PROGRAMMING

Introductory, broad, and hands-on coverage of basic aspects of computational thinking with emphasis on problem solving using a high-level programming language.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 16010 TELECOMMUNICATIONS INFRASTRUCTURE

Provides a broad overview of communication infrastructures for the public switch telephone network, wireless networks and data networks. Other topics covered include security, network management and monitoring. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 21010 ENTERPRISE ARCHITECTURE

Enterprise architectures facilitates the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in the industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and



the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources. Prerequisite: sophomore standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 23310 HUMAN-COMPUTER INTERACTION

A survey course intended to provide a broad foundation of HCI principles and perspectives relevant across multiple digital science concentrations. Focuses on both understanding HCI, through the presentation of major concepts, issues and principles in HCI across the full-spectrum of the user-centered design process (research, sketching, prototyping, evaluation, etc.), and doing HCI, with a focus on the user, needs and task analysis, and sketching, prototyping, and evaluation. Prerequisite: sophomore standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 24410 DIGITAL INFORMATION MANAGEMENT AND PROCESSING

Presents a holistic view of information management including the external and internal information environment. Covers the history of information management, information industry and markets, internal information politics, behaviors, and cultures, information management policies, processes and technologies. Prerequisites: DSCI 10010 and 10410.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 31510 GLOBAL PROJECT MANAGEMENT AND TEAM DYNAMICS

Explains to technical and non-technical students alike what it takes to lead teams and projects from start to finish. Students will learn the critical and common challenges of leading projects and managing teams, studying diagrams and war stories of successes and failures using practical tools and methods. Prerequisite: MIS 44045.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences
Course Attributes: Writing Intensive Course

DSCI 31610 DIGITAL SYSTEMS SECURITY

The real threat to information system security comes from people, not computers. Students will understand human, behavioral

and managerial factors to deal with personal computer security, social engineering, cyber threats and risk management. Prerequisites: DSCI 24410 and MIS 44045.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 40910 CAPSTONE IN DIGITAL SCIENCES

Provides an integrative experience, bringing together aspects of the student's required coursework in the major and concentration. Students work in project teams, whenever possible together with senior project courses in digital science affiliated programs or capstone project teams from other digital sciences concentrations. Prerequisites: DSCI 31510; and TECH 36411; and senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 61010 ENTERPRISE ARCHITECTURE

Facilitates the alignment of IT and IS investment decisions with business goals. Enterprise architecture is increasingly used in industry as a result of the continued emergence of new technologies and ongoing pressures to reengineer business processes to achieve improved efficiency and greater customer focus. Enterprise architecture identifies the main components of an organization and the ways in which these components work together. The components include performance and strategy, people, business capabilities, applications, technology, knowledge and information, as well as financial and other resources. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 62010 BUSINESS ARCHITECTURE

Introduction to the concept of business architecture as the critical component of enterprise architecture. Students learn how to develop an enterprise business architecture, to apply business architecture principles, methods, and artifacts to organizational initiatives to ensure they are aligned with organizational business goals and performance standards. Students learn how different enterprise architecture frameworks approach the business layer. Prerequisites: DSCI 61010 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 64010 DATA ARCHITECTURE

Introduction to the concept of data and information architecture as a component of enterprise architecture. Students learn how to distinguish types of data, develop conceptual and logical data models, trace and map the use of data types across business capabilities, roles and applications, and prepare an enterprise level data dictionary. Students learn how to work with enterprise data architecture artifacts as they develop an enterprise information architecture blueprint. Prerequisite: DSCI 61010 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Digital Sciences

DSCI 65010 APPLICATION AND TECHNOLOGY ARCHITECTURE

Introduction to the concept of application and technology architectures in the context of enterprise architecture. Students learn how to define application and technology architecture principles and standards to support business performance, and to evaluate existing architectures in relation to performance goals. Students learn to work with application and technology artifacts and matrices, prepare a technology dictionary and develop an application architecture blueprint. Prerequisites: DSCI 61010 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Digital Sciences

Early Childhood Education (ECED)

ECED 10120 INTRODUCTION TO EARLY CHILDHOOD SERVICES

Orientation to the field of early childhood education: historical and present day programs and services for young children 0-8. Prerequisite: None.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 20163 UNDERSTANDING YOUNG CHILDREN: TYPICAL AND ATYPICAL PATHWAYS

Growth and development of young children from birth to age eight as it occurs along both typical and atypical pathways. Prerequisites: ECED 10120; and special approval. Corequisites: ECED 30134 and 30164 and 40145 and SPED 23000; and admission to advanced study.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture



Department: Teaching, Learning and Curriculum Studies

ECED 30123 LANGUAGE AND LITERACY FOR THE PRESCHOOL CHILD

(Equivalent to ECET 22130) An examination of the process of language and literacy development in preschool children. The course focuses on how preschool teachers integrate knowledge of development with early school and family literacy learning. Prerequisite: admission to advanced study. Corequisites: ECED 30142 and ECED 30147 and ECED 40165 and ECED 40192 (ECED Block II).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 30134 INTEGRATED EXPRESSIVE ARTS AND SOCIAL STUDIES IN PRESCHOOL

Young children's development in the expressive arts and social studies; implications for development of the environment, integrated curriculum and teaching methods for preschool children. Prerequisite: admission to advanced study. Corequisites: ECED 20163 and ECED 30164 and ECED 40145 (ECED Block I).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 30142 PARTNERSHIPS AND GUIDANCE FOR PRESCHOOL CHILDREN

(Equivalent to ECET 21005) Appropriate guidance strategies set the foundation for positive experiences our youngest children in Department; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance family partnerships and inclusive departmenting with preschool children and their educators. It takes a proactive stance, helping teachers develop a constructive guidance approach. Prerequisite: admission to advanced study. Corequisites: ECED 30123 and ECED 30147 and ECED 40165 and ECED 40192 (ECED Block II).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 30144 INTEGRATED CURRICULUM FOR SOCIAL STUDIES

Objectives, resources, curriculum development, methods of teaching social studies and expressive arts at kindergarten and primary levels; emphasis on developing integrated social studies curriculum; infusing multiple forms of expressive arts into integrated curriculum and assessment;

and engaging professional collaboration with teachers in the field. Prerequisite: ECED 30134 and admission to advanced study. Corequisites: ECED 40114 and 40126 and 40127 and 40128 and 40147 (Block IV).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 30147 EARLY EXPERIENCES IN MATHEMATICS AND SCIENCE

Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development. Prerequisite: C (2.0) or better in MATH 14001 and 14002 and admission to advanced study. Corequisites: ECED 30123 and ECED 30142 and ECED 40165 and ECED 40192.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 30164 PRESCHOOL EDUCATION

Integrated curriculum utilizing principles of developmentally appropriate practice in settings for children under five. Field experience two mornings a week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school or agency before the first day of the semester. Prerequisite: admission to advanced standing. Corequisites: ECED 20163 and EDUC 30134 and EDUC 40145 (ECED Block I).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent early childhood faculty members and may include experts from outside agencies and other institutions. S u/graded. Prerequisite: Permission.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

ECED 40105 APPROPRIATE PHONICS INSTRUCTION FOR KINDERGARTEN AND PRIMARY CHILDREN

An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children. Prerequisite: admission to advanced study. Corequisites: ECED 40107 and 40123 and 40142 (Block III).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40107 TEACHING MATHEMATICS: EARLY YEARS I

Instructional psychology and materials for effective teaching of mathematics in grades K-1 with a theoretical emphasis on cognitive development. Prerequisite: ECED 30147 and MATH 14001 and 14002 and admission to advanced study. Corequisites: ECED 40105 and 40123 and 40142.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40114 TEACHING SCIENCE IN THE EARLY YEARS

This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum. Prerequisite: ECED 30147 and admission to advanced study. Corequisites: ECED 30144 and 40126 and 40127 and 40128 and 40147 (Block IV).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40123 CRITICAL INQUIRY INTO INTERATED CURRICULUM IN THE PRIMARY YEARS

Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Programme. Prerequisite: Admission to advanced study. Corequisites: ECED 40105 and 40107 and 40142.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

**ECED 40125 INQUIRY INTO PROFESSIONAL PRACTICE**

Interdisciplinary inquiry into teaching as a professional practice in ECED; emphasis on teacher as researcher. Utilization of teaching learning technologies.
Prerequisite: Admission to advanced study.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40126 DEVELOPMENTAL READING AND WRITING: EARLY YEARS

This course builds on work begun in 40105. It explores how teachers support primary children's literacy development through small group strategic instruction based on formative assessments. Pre-service teachers will also learn how to implement a process approach to writing instruction.
Prerequisite: ECED 40105 and admission to advanced study. Corequisites ECED 40127 and 30144 and 40114 and 40147.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies
Course Attributes: Writing Intensive Course

ECED 40127 DEVELOPING A BALANCED LITERACY PROGRAM

This course expands on the previous three literacy courses to explore how research-based instruction requires a balance of literacy learning formats; an integration with learning in the content areas and is based on assessment of individual children's reading and writing abilities. Prerequisites: ECED 40105 and admission to advanced study. Corequisites: ECED 30144 and 40114 and 40126 and 40128 and 40147.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40128 INTEGRATED FIELD EXPERIENCES

Participation in experiences offering opportunity to plan and teach reading, language arts, integrated content units and observe students in early childhood classrooms. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/ internship will take place. Prerequisite: admission to advanced study. Corequisites: ECED 30144 and 40114 and 40126 and 40127 and 40147.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40142 HOME-SCHOOL-COMMUNITY-PARTNERSHIPS IN DIVERSE CONTEXTS

Approaches to parent and community involvement in the education and welfare of children are examined, applied, and discussed. Focuses are theories, policies, practices, skills, and knowledge of partnership building in educational settings. An emphasis on differentiation of practices for diverse communities is applied to teaching and learning in the primary grades. Prerequisite: admission to advanced study. Corequisite: ECED 40105 and 40107 and 40123.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40145 MUSIC AND RHYTHMS IN PRE-PRIMARY EDUCATION

Music and rhythms for preprimary children. Optional course intended for majors in early childhood education or other persons desiring additional work with preprimary children. Prerequisite: admission to advanced study. Corequisites: ECED 20163 and ECED 30134 and ECED 30164 (ECED Block I).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40146 TEACHING WITH MICROCOMPUTERS: EARLY YEARS

Developing competency in teaching with microcomputers in prekindergarten through grade three. Includes laboratory experience in computerized lessons and programming in Logo. Prerequisite: ITEC 47427 and admission to advanced study.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40147 TEACHING MATHEMATICS: EARLY YEARS II

Instructional psychology and materials for effective teaching of mathematics in grades K-3 with a theoretical emphasis on cognitive development. Prerequisite: C or better in MATH 14001 and 14002 and admission to advanced study. Corequisites: ECED 30144 and 40114 and 40126 and 40127 and 40128 (Block IV).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40151 GUIDANCE OF YOUNG CHILDREN

Principles and practices of appropriate guidance for young children, intervention strategies, resources and materials for guidance. Prerequisite: admission to advanced study. Corequisites: ECED 40105 and 40107 and 40142 and CULT 29535.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40165 INTEGRATED APPLICATION OF PRESCHOOL CURRICULUM

(Equivalent to ECET 22140) Internship in preDepartment. Advanced integrated preschool curriculum utilizing principles of developmentally appropriate practice focusing on infant toddler and preschool age children. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department-agency before the first day of the semester in which student teaching internship will take place. Prerequisite: ECED 30164. Corequisites: ECED 30123 and ECED 30142 and ECED 30147 and ECED.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 40192 INTERNSHIP IN PRESCHOOL

(Equivalent to ECET 22150) Internship in preschool settings, full day for fifteen weeks. Prerequisite: ECED 30164 and admission to advanced study. Corequisites: ECED 30123 and ECED 30142 and ECED 30147 and ECED 40165
6.000 TO 12.000 Credit hours
42.000 TO 84.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Teaching, Learning and Curriculum Studies

ECED 40196 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION

Open to seniors in ECED. Intensive individual study on an early childhood topic selected by student and adviser. Prerequisite: Admission to advanced study and special approval.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies



ECED 40292 INTERNSHIP IN KINDERGARTEN/PRIMARY

Internship in grades K-3, full day for 16 weeks. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/ internship will take place. Prerequisite: admission to advanced study. Corequisite: ECED 40125.

6.000 TO 12.000 Credit hours

6.000 TO 12.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Teaching, Learning and Curriculum Studies

ECED 50093 VARIABLE TITLE WORKSHOP IN EARLY CHILDHOOD EDUCATION

Variable topic workshop in early childhood education. Prerequisite: Graduate standing and special approval.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Teaching, Learning and Curriculum Studies

ECED 50114 TEACHING SCIENCE IN THE EARLY YEARS

This course investigates engaging young children in inquiry-based processes of science. Emphasis is given to creating developmentally appropriate experiences in accordance to NAEYC guidelines. National and state science standards as well as the college and graduate school of education conceptual framework. Attention is focused on the use of science materials safety planning assessment and incorporating science across the curriculum. Prerequisite: Graduate standing in the Master of Arts in Teaching (MAT) program.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 50123 CRITICAL INQUIRY INTO INTEGRATED CURRICULUM IN THE PRIMARY YEARS

Theoretical and content background addressing integration of curriculum and global perspectives aligned with the International Baccalaureate Primary Years Programme. Prerequisites: ECED 60113 and 60152; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 50142 HOME, SCHOOL AND COMMUNITY RELATIONS

Approaches to parent and community involvement in the education and welfare of children. Understanding of role of community agencies and organizations.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 50145 MUSIC AND RHYTHMS IN PREPRIMARY EDUCATION

Comprehensive coverage of music and rhythms for preprimary child. Intended for early childhood education majors or other persons desiring additional work in music with preprimary children. Prerequisite: Special approval from instructor. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 50146 TEACHING WITH MICROCOMPUTERS: EARLY YEARS

Developing competency in teaching with microcomputers in prekindergarten through grade three. Includes laboratory experience in computerized lessons and management and programming in LOGO, field testing of computer-related materials, and a research review. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 50147 TEACHING MATHEMATICS: EARLY YEARS

Instructional psychology and materials for effective teaching of mathematics in prekindergarten through grade three with a theoretical emphasis on cognitive development. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 50151 GUIDANCE OF YOUNG CHILDREN

Principles and practices of appropriate guidance for young children: intervention strategies, resources and materials for guidance. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 50153 ORGANIZATION AND SUPERVISION OF EARLY CHILDHOOD CENTERS

Basic guidelines for establishing and supervising early childhood settings for infants, preschool and school age children. Prerequisite: Grading standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60101 CONSTRUCTIVIST TEACHING IN EARLY CHILDHOOD CLASSROOMS

Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs. The course will focus on constructivist practices emphasizing child sensitive curriculum and teaching practices. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60102 DEVELOPING A BALANCED LITERACY PROGRAM

An examination of own teaching practice focusing on assessment strategies to inform decision making for individual children and evaluation strategies to fine tune a balanced literacy program. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60111 AUXILIARY SERVICES FOR EARLY CHILDHOOD EDUCATION

Current public and private programs for young children as resources for preschool and primary teachers. Methods of initiating and implementing new programs. Prerequisite: Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60112 HUMANITIES FOR CHILDREN

Relevance of humanities as applied to education of young children. Prerequisite: Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 60113 PRESCHOOL EDUCATION**

In-depth study of curriculum development in preschool programs. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60150 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES

Overview/comparison of early childhood service approaches: history/issues delivering services; developmentally appropriate practice; and environmental arrangement, how to modify curriculum. Prerequisite: Graduate standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60151 SOCIO MORAL ENVIRONMENT IN EARLY CHILDHOOD EDUCATION

Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60152 APPLICATION OF SELECTED THEORETICAL PRINCIPLES TO THE DEVELOPMENT OF YOUNG CHILDREN

Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60153 PLAY IN CHILDHOOD

Examination of the play of children from various theoretical perspectives, the role of the play in development, strategies for facilitation of children's play in various settings. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60154 PRACTICAL APPLICATIONS BIRTH TO FIVE

Practical application of recommended practices for children birth-five. Observation of children in natural environment. Plan/evaluate intervention with families professionals. Prerequisite: Graduate standing and special approval.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60155 INFANT AND TODDLER DEVELOPMENT AND EDUCATION

Development from birth through age two. Application of theories to understand infant and toddler behavior and developing infant toddler programs. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60156 FOUNDATIONS IN EARLY CHILDHOOD SERVICES

Issues facing children within family/society; history of early childhood services; theoretical perspectives; implications of childhood disabilities; recommended assessment, intervention and evaluation. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60157 ASSESSMENT/TEACHING EXCEPTIONAL INFANTS AND YOUNG CHILDREN

Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress. Prerequisite: Graduate standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60158 RECONCEPTUALIZING EARLY CHILDHOOD CURRICULUM

Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood

education curricula practices will be critically examined. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60159 FAMILY PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD

Examines issues facing families and professionals serving young children who are "at risk," disabled and typically developing. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60160 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN

Overview of typical/atypical development pathways age three to grade three: theories of behavior, implications of atypical development on play/learning; development within ecological framework. Prerequisite: Graduate standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60161 PARENTING EDUCATION: SUPPORTING THE PARENTING PROCESS

Exploration of parenting processes through the lifespan with particular focus on how school and nonschool professionals support families and children. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 60162 PRACTICAL APPLICATIONS FIVE TO EIGHT

Application of recommended practices for children five to eight. Observation of children in natural environment plan evaluate intervention collaboratively. Sixty clinical field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing and special approval.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate



Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 60164 APPROPRIATE ASSESSMENT IN EARLY CHILDHOOD EDUCATION

Formative evaluation that informs curriculum planning for children age 3 to grade 3. Seamless assessment of both emergent academic abilities and specific content areas such as math, science and literacy will be examined. Prerequisite: graduate standing in Master of Arts in Teaching (MAT) program.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 60165 PRINCIPLES OF SOCIAL LEARNING APPLIED TO EARLY CHILDHOOD EDUCATION

Discussion, evaluation and application of contemporary theory and research specifically related to the modification of behavior within the context of the developmental demands of early childhood. Prerequisite: Graduate standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 60166 OBSERVATIONAL ANALYSIS OF CLASSROOM INTERACTIONS

A practicum in construction and application of pupil observational assessment instruments for classroom use. Developmental and social psychology research is used to develop assessment items. Emphasis is on analysis of social interaction patterns through narrative and checklist recording, teacher rating scales and sociometric evaluation. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Grading standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 60167 LANGUAGE AND LITERACY: UNDERSTANDING DEVELOPMENT

The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-

cultural language. Topics specifically related to classroom teaching include the assessment of language delays and disorders and strategies for connecting oral language to literacy in preDepartment. Prerequisite: Graduate standing.
Corequisite ECED 60152.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 60168 COGNITIVE DEVELOPMENT IN EARLY CHILDHOOD EDUCATION

Survey of changes in child's systems of processing information from birth through primary school years, and application of these theoretical principles to programs for young children. Prerequisite: Graduate standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 60192 EARLY CHILDHOOD SERVICES INTERVENTION METHODS/INTERNSHIP

Integration of specific strategies for working with children birth to eight with intensive needs (cerebral palsy, spina bifida, autism) with internship. Ninety field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing and special approval.
5.000 Credit hours
5.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing and special approval.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Teaching, Learning and Curriculum Studies

ECED 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: ECED 60199.
Graduate standing.
2.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Master's Thesis
Department: Teaching, Learning and Curriculum Studies

ECED 67291 SEMINAR IN EARLY CHILDHOOD EDUCATION

Seminar in early childhood education. Prerequisite: Graduate standing and special approval.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Teaching, Learning and Curriculum Studies

ECED 67292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION

Practicum/internship in early childhood education. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing.
1.000 TO 10.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 67295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION

Special topics in early childhood education. Prerequisite: Graduate standing and special approval.
1.000 TO 5.000 Credit hours
5.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

ECED 67296 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION

Individual investigation in early childhood education. Prerequisite: Graduate standing and permission.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

ECED 67298 RESEARCH IN EARLY CHILDHOOD EDUCATION

Research in early childhood education. Prerequisite: Graduate standing and special approval.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Teaching, Learning and Curriculum Studies

**ECED 70093 VARIABLE TITLE
WORKSHOP IN EARLY CHILDHOOD
EDUCATION**

Prerequisite: Doctoral standing and special approval.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Teaching, Learning and Curriculum Studies

**ECED 70101 CONSTRUCTIVIST
TEACHING IN EARLY CHILDHOOD
CLASSROOMS**

Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs. The course will focus on constructivist practices emphasizing child-sensitive curriculum and teaching practices. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70102 DEVELOPING A
BALANCED LITERACY PROGRAM**

An examination of own teaching practice focusing on assessment strategies to inform decision-making for individual children and evaluation strategies to fine tune a balanced literacy program.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70111 AUXILIARY SERVICES FOR
EARLY CHILDHOOD EDUCATION**

Current public and private programs for young children as resources for preschool and primary teachers. Methods of initiating and implementing new programs.

Prerequisite: Doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70112 HUMANITIES FOR
CHILDREN**

Relevance of humanities as applied to education of young children. Prerequisite: Doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 70113 PRESCHOOL EDUCATION

In-depth study of curriculum development in preschool programs. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70151 SOCIOMORAL
ENVIRONMENT IN EARLY CHILDHOOD
EDUCATION**

Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship-making, guidance strategies and interventions, building and facilitating classroom communities and promoting caring classrooms will be the focus of this course. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70152 APPLICATION OF
SELECTED THEORETICAL PRINCIPLES
TO THE DEVELOPMENT OF YOUNG
CHILDREN**

Examination of theories pertaining to child development which have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 70153 PLAY IN CHILDHOOD

Examination of the play of children from various theoretical perspectives, the role of the play in development, strategies for facilitation of children's play in various settings. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70154 PRACTICAL
APPLICATIONS BIRTH TO FIVE**

Practical application of recommended practices for children birth-five. Observation of children in natural environment. Plan/evaluate intervention with families/professionals. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70155 INFANT AND TODDLER
DEVELOPMENT AND EDUCATION**

Development from birth through age two. Application of theories to understand infant and toddler behavior and developing infant/toddler programs. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70158 RECONCEPTUALIZING
EARLY CHILDHOOD CURRICULUM**

Course examines postmodern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70161 PARENTING
EDUCATION:SUPPORTING THE
PARENTING PROCESS**

Exploration of parenting processes through the lifespan with particular focus on how school and nonschool professionals support families and children. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70164 APPROPRIATE
ASSESSMENT IN EARLY CHILDHOOD
EDUCATION**

Formative evaluation that informs curriculum planning for children age 3 to grade 3. Seamless assessment of both emergent academic abilities and specific content areas such as math, science and literacy will be examined. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**ECED 70165 PRINCIPLES OF SOCIAL
LEARNING APPLIED TO EARLY
CHILDHOOD EDUCATION**

Discussion, evaluation and application of contemporary theory and research specifically related to the modification of behavior within the context of the developmental demands of early childhood.



Prerequisite: Doctoral standing and special approval.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 70166 OBSERVATIONAL ANALYSIS OF CLASSROOM INTERACTIONS

A practicum in construction and application of pupil observational assessment instruments for classroom use.

Developmental and social psychology research is used to develop assessment items. Emphasis is on analysis of social interaction patterns through narrative and checklist recording, teacher rating scales and sociometric evaluation. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place. Prerequisite: Doctoral standing and special approval.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 70167 LANGUAGE AND LITERACY: UNDERSTANDING DEVELOPMENT

The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multi-cultural language. Topics specifically related to classroom teaching include the assessment of language, delays and disorders and strategies for connecting oral language to literacy in preDepartment.

Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 70168 COGNITIVE DEVELOPMENT IN EARLY CHILDHOOD EDUCATION

Survey of changes in child's systems of processing information from birth through primary school years, and application of these theoretical principles to programs for young children. Prerequisite: Doctoral standing and special approval.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 77291 SEMINAR IN EARLY CHILDHOOD EDUCATION

Seminar in ECED. Prerequisites: Doctoral standing and special approval.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Teaching, Learning and Curriculum Studies

ECED 77292 PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION

Practicum/internship in ECED. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place. Prerequisite: Doctoral standing and special approval.

1.000 TO 10.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 77295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION

Special topics in ECED. Prerequisite: Doctoral standing and special approval.

1.000 TO 5.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 80291 ADVANCED SEMINAR IN EARLY CHILDHOOD EDUCATION

Advanced seminar in ECED. Prerequisite: Doctoral standing and permission.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Teaching, Learning and Curriculum Studies

ECED 80292 ADVANCED PRACTICUM AND INTERNSHIP IN EARLY CHILDHOOD EDUCATION

Advanced Practicum and Internship in ECED. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place. Prerequisite: Doctoral standing and special approval.

1.000 TO 10.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 80295 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION

Special topics in ECED. Prerequisite: Doctoral standing and special approval.

1.000 TO 5.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

ECED 80296 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION

Individual investigation in ECED.

Prerequisite: Doctoral standing and special approval.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Teaching, Learning and Curriculum Studies

ECED 80298 RESEARCH IN EARLY CHILDHOOD EDUCATION

Research in ECED. Prerequisite: Doctoral standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Teaching, Learning and Curriculum Studies

Early Childhood Education Technology (ECET)

ECET 21005 PARTNERSHIPS IN CHILD GUIDANCE

(Equivalent to ECED 30142) The course's foundation is the understanding that children are a part of a family, culture and community. Students gain knowledge and skills to implement developmentally appropriate child guidance strategies and learn cross-cultural communication skills. Twelve field experience hours required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/internship will take place. Prerequisite: ECED 10120 and ECED 20163.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

ECET 21010 INFANT/TODDLER CURRICULUM AND SERVICES

Infant/toddler development, environments and curriculum; theoretical perspectives; family involvement; community involvement; community resources, collaboration and advocacy; 38 hours of



field experience required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: ECED 10120, 20163.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

ECET 21095 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION TECHNOLOGY

Intensive study of significant current issues in the early childhood education field. Prerequisite: Departmental permission.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

ECET 21096 INDIVIDUAL INVESTIGATION IN EARLY CHILDHOOD EDUCATION TECHNOLOGY

Analysis and special research in the early childhood education field. Repeatable for a total of 6 hours. Prerequisite: Departmental permission.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

ECET 22000 PRESCHOOL CURRICULUM

PreDepartmenters' development, environments and curriculum; theoretical perspectives; family involvement; community resources, collaboration and advocacy; 38 hours of field experience required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: ECET 21010, ECED 20163.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

ECET 22130 EMERGING LITERACY

(Equivalent to ECED 30123) Theoretical and practical issues in acquisition and development of literacy. Developmentally appropriate instructional practices, integration across the curriculum, individual differences and assessment are addressed. Field hours required. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results

to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite:

ECED 10120, 20163.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

ECET 22140 STUDENT TEACHING SEMINAR

(Equivalent to ECED 40165) A reflective approach to make student teaching experience more valuable. Students develop and implement developmentally appropriate curriculum and assessment for young children, prepare a professional development plan and develop a professional portfolio. Corequisite: ECET 22150; departmental special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

ECET 22150 STUDENT TEACHING

(Equivalent to ECED 40192) Student will spend 300 hours at an approved preschool program under the supervision of an ECET/ECED faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Corequisite: ECET 22140; departmental special approval.

6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Regional College

Economics (ECON)

ECON 12060 PERSONAL FINANCE

Examines economic issues and problems of everyday life. Goal is to enable individuals to analyze their personal finances in order to learn how to get the most out of their income, increase income through a better understanding of possible investments, and protect what they have through selecting appropriate insurance. Topics covered include budgeting and financial planning, federal income taxes, insurance, borrowing, and investment principles and strategies. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 22060 PRINCIPLES OF MICROECONOMICS

(Equivalent to HONR 21197) Principles and policies affecting prices, including factor incomes, under alternative market structures. Tools developed to examine social problems, including poverty, crime, pollution and international relations. Prerequisite: MATH 10007 or 10022 or 10023 or 10024 or 11009 or 11010; or appropriate placement test scores.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics
Course Attributes: Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

ECON 22061 PRINCIPLES OF MACROECONOMICS

(Equivalent to HONR 21297) Principles and policies affecting aggregate production, consumption, investment and government expenditures. Includes role of money, the banking system, inflation, unemployment and economic growth. Prerequisite: ECON 22060.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics
Course Attributes: Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

ECON 32025 MONEY, CREDIT AND BANKING

Organization of our money, credit and banking system principles and problems of monetary policy. Not open to students who have completed ECON 32030. Prerequisite: ECON 22060 and 22061.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 32030 INTERNATIONAL MONEY, CREDIT AND BANKING

Organization and conduct of international money, credit and banking systems. Principles and problems of monetary policy. The financial systems in the United States and in other countries and the role of international organizations such as the International Monetary Fund, World Trade Organization and World Bank are studies. Not open to students who have completed ECON 32025. Prerequisite: ECON 22060 and ECON 22061.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics



ECON 32040 INTERMEDIATE MICROECONOMIC THEORY AND APPLICATIONS

The study of individual choices under conditions of relative scarcity, and their consequences for prices and the allocation of resources in the economic system. Develops the analytical and theoretical tools pertinent in determining how scarce resources are allocated among competing wants and demonstrates how these tools are used in real world applications.

Prerequisite: ECON 22060 and 22061.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 32041 INTERMEDIATE MACROECONOMIC THEORY AND POLICY

Analysis of how an economy such as the United States operates from an aggregate perspective. The determination for the level of income, employment, inflation, international trade and economic growth is analyzed. Discussion of monetary and fiscal policies. Prerequisite: ECON 22060 and 22061.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 32050 APPLIED ECONOMETRICS

Application of econometric methods such as regression analysis to a variety of economics questions. Prerequisite: MATH 11012 or MATH 12002; and ECON 22060 and 22061 and MIS 24056.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 32070 LABOR PROBLEMS

Surveys of the major institutions, features and functioning of the labor market as well as some of its outstanding problems. Does not count toward economics major or minor. Not open to students who have completed ECON 42072. Prerequisite: ECON 22060 and 22061.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 32075 INTRODUCTION TO INTERNATIONAL TRADE

Introduction to fundamental principles and problems of international trade. Covers comparative advantage, government policies affecting trade, free trade vs. protection, international institutions and exchange rates. Offered only in the Geneva program. Prerequisite: ECON 22061.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 32082 INTRODUCTION TO MANAGERIAL ECONOMICS

Combines economic theory and quantitative analysis to develop resource-allocation decision-making skills which enable managers to evaluate problems, identify possible solutions and finally implement and monitor the best alternative to accomplish their stated objectives. Covers such topics as supply and demand, consumer theory, production, costs, contracts, game theory, principal-agent problems, and the basic economic models of perfect competition, oligopoly, monopolistic competition and monopoly. Cannot be taken by economics majors. Not open to students who have completed ECON 32040. Prerequisite: ECON 22060.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 32083 THE ECONOMICS OF POVERTY

Nature and causes of poverty in United States. Analysis of impact of poverty upon economy and study of measures both real and potential for alleviating it. Prerequisite: ECON 22060.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

Course Attributes: Diversity Course-Domestic

ECON 32084 ECONOMICS OF THE ENVIRONMENT

Examines economic theory of environmental and resource economics in a fashion that is understandable by students with varied backgrounds in economics. Emphasis on microeconomic theory and its application to environmental issues. Topics covered include "market failure" and its impact on the environment; cost benefit analysis; and input-output analysis. Designed for those interested in the environment or who may be planning careers in environmental or natural sciences. Prerequisite: ECON 22060.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 32086 ECONOMICS OF EDUCATION

Economic aspects of primary, secondary and higher education. Returns examined with respect to individuals and society. Covers educational finance and efficient production of education. Prerequisite: ECON 22060.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 42040 INTRODUCTION TO ECONOMETRICS

Application of economic models, probability distributions, estimation, estimators, and regression and correlation as tools in economic analysis. Prerequisite: MATH 11012, MIS 34056, ECON 32040, 32041.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 42045 MATHEMATICAL ECONOMICS

Systematic exposition of mathematical techniques and their application to economic analysis. Among topics that may be covered: sets, relations/functions, matrix algebra, differentiable and integral calculus, and optimization techniques. Prerequisite: ECON 32040, 32041.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 42065 PROBLEMS OF MONETARY AND FISCAL POLICY

Analysis of objectives, techniques and economic effects of monetary and fiscal policies. Prerequisite: ECON 32041.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 42068 INDUSTRIAL ORGANIZATION AND PUBLIC POLICY

Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy. Prerequisite: ECON 32040.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

ECON 42072 ECONOMICS OF LABOR MARKETS

The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality. Prerequisite: ECON 32040.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Economics

**ECON 42075 INTERNATIONAL ECONOMIC RELATIONS**

Principles, problems and policies of international economic relations with extensive references to the United States, Western Europe, Latin America and former communist countries. Covers international aspects of interdependency, cooperation and multinational institutions. Prerequisite: ECON 22060 and 22061.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42076 ECONOMIC DEVELOPMENT

Analysis of nature of significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth. Prerequisite: ECON 22060 and 22061.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42078 ECONOMIC HISTORY OF TECHNOLOGICAL AND INDUSTRIAL DEVELOPMENT

Historical survey of major economic and technological developments in Western countries from the middle ages to the 20th century. Prerequisite: ECON 22060 and 22061 or special approval of instructor.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42080 REGIONAL ECONOMICS

Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities. Prerequisite: ECON 22060 and 22061.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42081 URBAN ECONOMICS

Application of economic principles to urban spatial patterns, economic development and public policy in housing, transportation, pollution, welfare, etc. Prerequisite: ECON 22060 and 22061.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42083 HISTORY OF ECONOMIC THOUGHT

Economic thought from Mercantilist Period to early 20th century, especially emphasizing theories of Classical

Department, Marginalist, Marx and neoclassicists. Prerequisite: 12 semester hours of economics.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42085 PUBLIC FINANCE

Examination of public expenditure and taxation policies, including the theory of public goods, collective decision making, cost-benefit analysis, equity and efficiency aspects of taxation and current government policy issues. Prerequisite: ECON 22060.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42086 ECONOMICS OF HEALTH CARE

Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMOs and increasing costs in health care. Prerequisite: ECON 22060.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42087 LAW AND ECONOMICS

A study of the economic foundations of the legal system and the impact of legal systems on market behavior. Prerequisite: ECON 22060 and 22061 or special approval of instructor.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42191 SENIOR SEMINAR IN ECONOMICS

Advanced investigation of selected topics in economic analysis and issues in economic policy. Prerequisites: ECON 32050 or MATH 40012; and ECON 32040 and 32041.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Economics
Course Attributes: Writing Intensive Course

ECON 42291 VARIABLE CONTENT SEMINAR IN ECONOMICS

(Repeated registration permitted when topic varies; repeatable for a total of 12 hours) various special seminars will be announced in the schedule of classes under this course number. Prerequisite: Permission.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate

Schedule Types: Seminar
Department: Economics

ECON 42292 INTERNSHIP IN ECONOMICS

Supervised practical experience in economics. Eligibility requirements available from the internship coordinator. Does not count toward economics major. May count as business elective.

Prerequisite: Economics major; junior standing; special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Economics

ECON 42293 VARIABLE TOPIC WORKSHOP IN ECONOMICS

(Repeated registration permitted when topic varies; repeatable for a total of 18 hours) various special workshops will be announced in the schedule of classes under this course number. Prerequisite: Permission.

1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Economics

ECON 42295 SPECIAL TOPICS IN ECONOMICS

(Repeated registration permitted when topic varies; repeatable for a total of 9 hours) various special topics will be announced in the schedule of classes under this course number. Prerequisite: special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Economics

ECON 42296 INDIVIDUAL INVESTIGATION IN ECONOMICS

Independent study done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration. Prerequisite: Senior economics major; special approval.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Economics

ECON 42297 VARIABLE TOPIC COLLOQUIUM IN ECONOMICS

(Repeated registration permitted when topic varies; repeatable for a total of 9 hours) various special colloquia will be announced in the schedule of classes under this number. Prerequisite: Permission.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: Economics



ECON 42298 RESEARCH IN ECONOMICS

Research project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration. Prerequisite: Senior economics major; special approval.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Research

Department: Economics

ECON 42299 SENIOR PROJECT

Thesis or independent study project done under the supervision of a faculty member.

Written approval of supervising faculty member and department chair required prior to registration. Prerequisite: Senior economics major; special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Senior Project/Honors Thesis

Department: Economics

ECON 52040 INTRODUCTION TO ECONOMETRICS

Application of economic models, probability distributions, estimation, estimators and regression, and correlation as tools in economic analysis. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52045 MATHEMATICAL ECONOMICS

Systematic exposition of mathematical techniques and their application to economic analysis. Among topics that may be covered are sets, relations/functions, matrix algebra, differential and integral calculus and optimization techniques.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52065 PROBLEMS OF MONETARY AND FISCAL POLICY

Analysis of objectives, techniques and economic effects of monetary and fiscal policies. Prerequisite: ECON 32041 or ECON 62021; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52068 INDUSTRIAL ORGANIZATION AND PUBLIC POLICY

Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in

American economy. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52072 ECONOMICS OF LABOR MARKETS

The economic analysis of the decisions of workers and firms in determination of wages and employment. Topics include labor supply decisions, marginal productivity theory, discrimination, demand for education, effects of trade unions, immigration and growing wage inequality.

Prerequisite: ECON 32040; graduate standing; for students that did not attend Kent State University for their undergraduate degree, please contact department for approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52076 ECONOMIC DEVELOPMENT

Analysis of nature and significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52078 ECONOMIC HISTORY OF TECHNOLOGICAL AND INDUSTRIAL DEVELOPMENT

Historical survey of major economic and technological developments in Western countries from the Middle Ages to the 20th century. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52080 REGIONAL ECONOMICS

Examines techniques of regional economic analysis to promote understanding of interregional disparities in developed nations and suggests policy alternatives for alleviating problems arising from disparities. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52081 URBAN ECONOMICS

Application of economic principles to urban spatial patterns, economic development, and public policy in housing, transportation, pollution, welfare, etc. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52083 HISTORY OF ECONOMIC THOUGHT

Economic thought from Mercantilist Period to early 20th century, especially emphasizing theories of Classical Department, Marginalist, Marx and Neoclassicists. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52085 PUBLIC FINANCE

Examination of public expenditure and taxation policies including the theory of public goods, collective decision making, cost-benefit analysis, equity and efficiency aspects of taxation and current government policy issues. Prerequisite: ECON22060; graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52086 ECONOMICS OF HEALTH CARE

Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMO's and increasing costs in health care. Prerequisite: Graduate standing and ECON 62022.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52087 LAW AND ECONOMICS

A study of the economic foundations of the legal system and the impact of legal systems on market behavior. Prerequisite: Graduate standing or special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 52291 VARIABLE CONTENT SEMINAR IN ECONOMICS

Various special seminars will be announced in the schedule of classes under this course number. Repeatable for a total of 12 hours. Prerequisite: Special approval and graduate standing.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Economics

**ECON 52293 VARIABLE TOPIC WORKSHOP IN ECONOMICS**

Various special workshops will be announced in the schedule of classes under this course number. Repeatable for a total of 18 hours. Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Economics

ECON 52295 SPECIAL TOPICS IN ECONOMICS

Various special topics will be announced in the schedule of classes under this course number. Repeatable for a total of 9 hours. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 52297 VARIABLE TOPIC COLLOQUIUM IN ECONOMICS

Various special colloquia will be announced in the schedule of classes under this number. Repeatable for a total of 9 hours. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: Economics

ECON 62010 SURVEY OF ECONOMICS

Survey of basic economic concepts and methods of analysis of both micro- and macroeconomics. Emphasis is placed on the use and relevance of economic concepts and tools in business decision-making. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62015 ECONOMICS OF INFORMATION

Introduction to microeconomic theory and decision-making and its applications to the information economy. Overview of the economics of information. Consumer behavior and production theory; the demand for information; information as a factor of production; information costs and pricing. Case studies in the information industry. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62021 BUSINESS CONDITIONS ANALYSIS AND PUBLIC POLICY

Analysis of forces determining economic growth, employment, inflation and international competitiveness with

emphasis on understanding the business cycle and government stabilization policies. Prerequisite: BAD 64005 (may be taken concurrently). Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62022 MANAGERIAL ECONOMICS

Uses economic theory and quantitative methodologies to develop decision-making skills which enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently. Prerequisite: BAD 64005; and MATH 11012 or MATH 12002 or ECON 62010; and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62050 MICROECONOMIC THEORY I

Comprehensive analysis of methodology of economics, consumer behavior production and costs the firm, markets and welfare economics. Prerequisite: ECON 62022. (It would be useful if the student had some facility in integral and differential calculus.) Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62051 MACROECONOMIC THEORY I

Analysis of the determination of the level of income, employment inflation economic growth consumption investment money demand and supply the international sector and economic policy are discussed. Prerequisite: ECON 62021; ECON 62022; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62054 ECONOMETRICS I

Introduction to problems and methods of the empirical estimation of economic relationships. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62055 ECONOMETRICS II

Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation. Prerequisite: ECON 62054 and graduate standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62056 TIME SERIES ANALYSIS

Covers various linear and non-linear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor. Prerequisite: Special approval of instructor and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62061 MONETARY THEORY AND POLICY

A study of the nature and definition of money, its relationship to prices, output, employment, and interest rates and problems related to the conduct of monetary policy. Prerequisite: ECON 62021; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62071 LABOR ECONOMICS

Theoretical and applied analyses of wage determination, the supply of skills, labor market discrimination, and the effects of trade unions and government policies. Prerequisite: ECON 62022; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62075 INTERNATIONAL TRADE

Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade and the effect of international trade on domestic policy. Prerequisite: ECON 62021 and ECON 62022; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Economics

ECON 62076 INTERNATIONAL FINANCE

Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas, and international capital flows. Prerequisite: ECON 62021; graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Economics

ECON 62077 ECONOMIC PROBLEMS OF DEVELOPING AREAS

In-depth analysis of selected topics and issues in development economics.

Prerequisite: ECON 52076. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 62078 SEMINAR IN INTERNATIONAL ECONOMICS

Analysis of recent contributions and current problems in international trade and finance.

Prerequisite: ECON 62075 and 62076.

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 62092 INTERNSHIP IN ECONOMICS

Supervised practical experience in economics. Eligibility requirements available from the internship coordinator.

Prerequisite: Admitted to M.A. in economics program; special approval.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Economics

ECON 62095 SPECIAL TOPICS IN ECONOMICS

(Repeatable for credit) Various special topics will be announced in the Schedule of Classes under this course number.

Prerequisite: special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 62096 INDEPENDENT STUDY

Independent study on a particular project or sequence of subjects. Maximum of 6 semester hours of work may be earned in independent study although no more than 3 hours in any one semester. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Economics

ECON 62098 RESEARCH

Research for master's students. May apply toward degree requirements if approved in advance by department. Repeat registration permitted. Prerequisite: Graduate standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Economics

ECON 62180 REGIONAL ECONOMICS

Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 62182 PUBLIC EXPENDITURE AND COST BENEFIT ANALYSIS

Theoretical and applied aspects of public expenditure and cost benefit analysis. Uses economic theory to appraise public expenditure alternatives in advanced and developing countries. Prerequisite: ECON 62022; graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 62199 THESIS I

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. Prerequisite: Special approval of adviser and graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Economics

ECON 62299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: ECON 62199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Economics

ECON 64004 QUANTITATIVE METHODS IN BUSINESS ADMINISTRATION I

Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

ECON 82024 SEMINAR IN APPLIED ECONOMIC ANALYSIS

Discussion and analysis of selected current economic problems confronting the economy and the business sector. Emphasis will be on applied analysis.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Seminar

Department: Economics

Educational Administration (EDAD)

EDAD 40093 VARIABLE TITLE WORKSHOP IN EDAD

Prerequisite: None.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Foundations, Leadership and Administration

EDAD 46525 CAREERS IN HIGHER EDUCATION ADMINISTRATION AND STUDENT PERSONNEL

Familiarize students with the history of higher education; philosophies of higher education, financial, legal and political issues facing higher education; and the careers available in colleges and universities. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION

Variable title workshop in educational administration. Prerequisite: Graduate standing.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Foundations, Leadership and Administration

EDAD 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Foundations, Leadership and Administration

EDAD 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: EDAD 60199. Graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Foundations, Leadership and Administration

**EDAD 65200 THE DEVELOPMENT AND ADMINISTRATION OF CHARTER SCHOOLS**

Provides students with an understanding of the charter Departments movement in America along with the basic skill sets required to administrate charter Departments. Topics will span from the history of the charter Departments movement to various administrative models in the field. Prerequisite: major in Educational Administration K-12 Leadership (EAKL), Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION

A field-based internship requiring a separate project as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Foundations, Leadership and Administration

EDAD 66515 FACILITIES PLANNING AND ADMINISTRATION

Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION

Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state and national level. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 66518 LAW AND SPECIAL EDUCATION

Constitutional, statutory and case law involving handicapped infants and students; special education teachers and administrators and parents are studied. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS

Selected principles of constitutional, statutory case and common law affecting the administration of schools generally and Ohio Departments specifically. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66522 PUBLIC SCHOOL FINANCE AND ECONOMICS

Analysis of national, state and local problems of collection custody and expenditure of public school funds. Prerequisite: EDAD 66526 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66525 THE EDUCATIONAL PRINCIPALSHIP

Organizing and administering elementary, middle level and secondary Departments. Prerequisite: EDAD 676526; 16 hrs of Ed Admin; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION

Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS

Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process and fund raising and school groups. This course is a requirement for the principal license and an elective course in EDAD. Prerequisite: Major in Educational Administration K-12 Leadership (EAKL), Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66528 THE SCHOOL BUSINESS MANAGER AND SCHOOL TREASURER

Identification and description of the roles, responsibilities and activities of the school business manager and the school treasurer overview of the interface in school district operations. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66529 LEADING FOR SOCIAL JUSTICE

Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century Departments. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary Departments. Prerequisite: graduate standing.

3.000 Credit hours
2.000 Lecture hours
1.000 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 66531 INSTRUCTIONAL LEADERSHIP

Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing



the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies. Prerequisite: graduate standing. 3.000 Credit hours
2.000 Lecture hours
1.000 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 66533 CENTRAL OFFICE ADMINISTRATION: CURRICULUM AND PUPIL SERVICES

Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students. Prerequisite: graduate standing. 3.000 Credit hours
1.750 Lecture hours
1.250 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 66534 THE SUPERINTENDENCY

Focuses on major responsibilities of board of education and superintendent. Prerequisite: EDAD 6/ 76526. Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT

Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district school classroom curriculum. Prerequisites: major in Educational Administration -K-12 Leadership (EAKL), Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66537 THE PRINCIPAL AS EDUCATIONAL LEADER

Focus on the role of the principal as a leader for understanding the societal and cultural context of education; teaching and learning processes; ethical and moral issues for administrators; and stakeholder empowerment for school improvement.

Prerequisite: EDAD6/76526. Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORMS

Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micro politics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them. Prerequisite: graduate standing. 3.000 Credit hours
1.750 Lecture hours
1.250 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 66540 WOMEN IN LEADERSHIP

An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66542 PRINCIPLES AND TECHNIQUES OF SUPERVISION

Principles and techniques needed by administrative specialists and supervisors and given. Research findings include changing human relations, group processes, communications, observations and conferencing skills. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66543 SCHOOL ADMINISTRATION IN URBAN SETTINGS

This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city Departments. Issues of focus include transportation, staffing, extracurricular support for students and more. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS

Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare. Prerequisite: graduate standing. 3.000 Credit hours
1.750 Lecture hours
1.250 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 66591 SEMINAR IN EDUCATIONAL ADMINISTRATION

Seminar in educational administration. Prerequisite: Graduate standing. 1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Foundations, Leadership and Administration

EDAD 66595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION

Specialized offerings in response to emerging or selected program needs. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 66596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION

Projects as assigned. Prerequisite: Grading standing and special approval. 2.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Foundations, Leadership and Administration

EDAD 66598 RESEARCH IN EDUCATIONAL ADMINISTRATION

Projects as assigned. Prerequisite: Graduate standing and special approval. 2.000 TO 8.000 Credit hours
8.000 Other hours
Level: Graduate



Schedule Types: Research
Department: Foundations, Leadership and Administration

EDAD 66602 TECHNOLOGY LEADERSHIP IN EDUCATION

Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues. Prerequisite: graduate standing.

3.000 Credit hours
2.250 Lecture hours
0.750 Other hours

Level: Graduate

Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 66747 PERSONNEL

Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques.

Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 70093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL ADMINISTRATION

Variable title workshop in EDAD.

Prerequisite: Doctoral standing.

1.000 TO 5.000 Credit hours
3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Foundations, Leadership and Administration

EDAD 75200 THE DEVELOPMENT AND ADMINISTRATION OF CHARTER SCHOOLS

Provides students with an understanding of the charter schools movement in America along with the basic skill sets required to administrate charter Departments. Topics will span from the history of the charter Departments movement to various administrative models in the field.

Prerequisites: major in Educational Administration K-12 Leadership (EAKL), Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 76492 INTERNSHIP IN EDUCATIONAL ADMINISTRATION

A field-based internship requiring a separate project as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing.

3.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

EDAD 76515 FACILITIES PLANNING AND ADMINISTRATION

Overview of facilities planning and administration, including architectural/ construction management, the educational program, restoration and maintenance.

Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 76517 ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION

Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special education operations at a local, state, and national level. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 76518 LAW AND SPECIAL EDUCATION

Constitutional, statutory and case law involving handicapped infants and students, special education teachers and administrators, and parents are studied.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 76520 SCHOOL LAW FOR TEACHERS AND PRINCIPALS

Selected principles of constitutional, statutory, case and common law affecting the administration of Departments generally and Ohio Departments specifically.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 76522 PUBLIC SCHOOL FINANCE AND ECONOMICS

Analysis of national, state and local problems of collection custody and expenditure of public school funds.

Prerequisite: EDAD 76526 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 76523 ADVANCED EDUCATION FINANCE

Advanced study of alternative plans for financing education, study of comparative educational finance structures (national basis), equity, parity, relationship of finance of higher education and elementary/secondary education, role of the federal government and private enterprise in the financing of education. Prerequisite: EDAD 76522.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 76525 THE EDUCATIONAL PRINCIPALSHIP

Organizing and administering elementary, middle level and secondary Departments.

Prerequisite: EDAD 6/76526; 16 hrs of EDAD; doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 76526 FUNDAMENTALS OF EDUCATIONAL ADMINISTRATION

Examines theory and practice essential for administration. Skills and understanding are developed in theory goal setting staff development. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 76527 SCHOOL FINANCE FOR BUILDING ADMINISTRATORS

Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process, and fund raising



and school groups. This course is a requirement for the principal license.
Prerequisites: major in Educational Administration K-12 (EAKL), Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 76528 THE SCHOOL BUSINESS MANAGER AND SCHOOL TREASURER
Identification and description of the roles, responsibilities and activities of the school business manager and the school treasurer overview of the interface in school district operations. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 76529 LEADING FOR SOCIAL JUSTICE
Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century Departments. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary Departments. Prerequisite: doctoral standing.
3.000 Credit hours
2.000 Lecture hours
1.000 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 76531 INSTRUCTIONAL LEADERSHIP
Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies. Prerequisite: doctoral standing.
3.000 Credit hours

2.000 Lecture hours
1.000 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 76533 CENTRAL OFFICE ADMINISTRATION

Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students. Prerequisite: doctoral standing.
3.000 Credit hours
1.750 Lecture hours
1.250 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 76534 THE SUPERINTENDENCY
Focuses on major responsibilities of board of education and superintendent.
Prerequisite: EDAD 6/76526. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 76536 THE ADMINISTRATOR'S ROLE IN CURRICULUM DEVELOPMENT
Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district/Department/classroom curriculum. Prerequisite: Admission to an EDAD degree program or special approval from the instructor; doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 76537 THE PRINCIPAL AS EDUCATIONAL LEADER
Focus on the role of the principal as a leader for understanding the societal and cultural context of education; teaching and learning processes; ethical and moral issues for administrators; and stakeholder empowerment for school improvement.
Prerequisite: EDAD 6/76526.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 76538 ADMINISTRATION OF SCHOOL CULTURE, POLITICS AND REFORM
Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on

building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micro politics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them. Prerequisite: doctoral standing.
3.000 Credit hours
1.750 Lecture hours
1.250 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 76540 WOMEN IN LEADERSHIP
An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 76542 PRINCIPLES AND TECHNIQUES OF SUPERVISION
Principles and techniques needed by administrative specialists and supervisors are given. Research findings include changing human relations, group processes, communications, observations and conferencing skills. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 76543 SCHOOL ADMINISTRATION IN URBAN SETTINGS
This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city Departments. Issues of focus include transportation, staffing, extracurricular support for students and more. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 76544 COMMUNITY RELATIONS AND COMMUNICATION SKILLS
Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders



have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare. Prerequisite: doctoral standing.
3.000 Credit hours
1.750 Lecture hours
1.250 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 76595 SPECIAL TOPICS IN EDUCATIONAL ADMINISTRATION

Specialized offerings in response to emerging or selected program needs. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 76596 INDIVIDUAL INVESTIGATION IN EDUCATIONAL ADMINISTRATION

Projects as assigned. Prerequisite: Doctoral standing and special approval.
2.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Foundations, Leadership and Administration

EDAD 76602 TECHNOLOGY LEADERSHIP IN EDUCATION

Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tool for teaching, learning, assessment, management, planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues. Prerequisite: doctoral standing.
3.000 Credit hours
2.250 Lecture hours
0.750 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Foundations, Leadership and Administration

EDAD 76747 PERSONNEL

Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities and development of evaluation techniques. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EDAD 80080 DISSERTATION PREPARATION SEMINAR

Gain an in-depth understanding of the dissertation-writing process. Complete a dissertation proposal. Prerequisite: Doctoral standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Foundations, Leadership and Administration

EDAD 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: EDAD 80199. Doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Foundations, Leadership and Administration

EDAD 86558 ADVANCED EDUCATIONAL LEADERSHIP

This advanced leadership seminar is designed to provide the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research writing and teaching skills; to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers. Prerequisite: EDAD 6/86657. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EDAD 86591 SEMINAR IN EDUCATIONAL ADMINISTRATION

Seminar in EDAD. Prerequisites: Doctoral standing and permission.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Foundations, Leadership and Administration

EDAD 86598 RESEARCH IN EDUCATIONAL ADMINISTRATION

Projects as assigned. Prerequisite: Doctoral standing and special approval.
2.000 TO 8.000 Credit hours
8.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Foundations, Leadership and Administration

Educational Psychology and Foundations (EDPF)

EDPF 60094 COLLEGE TEACHING

Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment and others. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Education

EDPF 70094 COLLEGE TEACHING

Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment and others. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Education

EDPF 78903 LIFE SPAN DEVELOPMENT: CHILDHOOD AND ADOLESCENCE

Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Education

EDPF 79559 CULTURAL FOUNDATIONS OF EDUCATION

Inquiry into the assumptions and implications of educational policies and practices in human service professions through the application of historical, philosophical and sociological perspectives. Prerequisite: Doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Education

EDPF 79562 FOUNDATIONS OF MODERN EDUCATION

Inquiry into the assumptions and implications of educational policies and practices in human service professions



through the application of historical, philosophical and sociological perspectives.
Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Education

Education (EDUC)

EDUC 49525 INQUIRY PROFESSIONAL PRACTICE IN HEALTH/PHYSICAL EDUCATION

Seminar focused on development of those skills and knowledge which enable future teachers to engage in effective reflective/collaborative/ethical professional practice. Final semester of four. Utilization of teaching learning tech. Prerequisite: CULT 29525. Corequisite: EDUC 49526.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Education

EDUC 49526 STUDENT TEACHING IN HEALTH AND PHYSICAL EDUCATION

Full time student teaching which includes a balanced experience in elementary and secondary health and physical education. Prerequisite: ITEC 19525 and CULT 29525. Corequisite: EDUC 49525.
12.000 Credit hours
12.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Education

Electrical/Electronic and Related Engineering Technologies (EERT)

EERT 12000 ELECTRIC CIRCUITS I

Direct current circuit analysis involving current and voltage, resistance, energy and power, Ohm's law, series and parallel networks. Mesh and nodal analysis, network theorems and DC instruments. Corequisite: MATH 11009.
4.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

EERT 12001 ELECTRIC CIRCUITS II

Analysis of capacitive, inductance and magnetic circuits and transients in R-L-C combinations. AC network analysis: mesh and nodal, phasor algebra, power factor, resonance. Prerequisite: EERT 12000. Corequisite: MATH 11012 or 19002.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

EERT 12005 ELECTRICAL/ELECTRONIC DRAWING

Electrical/electronic drawing techniques using computer-aided design emphasizing schematic, block and wiring diagrams. Either printed, circuit or power layout is covered as needed. Prerequisite: None.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EERT 12010 INTRODUCTION TO ELECTRONICS

Semiconductor theory. Properties and application of PN junctions and bipolar junction transistors, amplifiers, field effect transistors (FET) amplifiers, JFET and MOSFET biasing and their use in simple circuits. Prerequisite: EERT 12000.
4.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

EERT 21010 ENGINEERING AND PROFESSIONAL ETHICS

Application of codes of ethics in the engineering and technology profession reflective of social and moral responsibilities to the public and accountability in engineering practice. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EERT 21096 INDIVIDUAL INVESTIGATION IN ELECTRICAL/ENGINEERING TECHNOLOGY

Independent, in depth research of an electrical electronic engineering technology topic supervised and coordinated by an engineering technology faculty member. Prerequisite: Permission.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

EERT 22000 ELECTRICITY/ELECTRONICS WITH APPLICATIONS

Basic electronics theory and fundamental concepts of electrical/electronic and digital circuits with applications in the various fields of engineering. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EERT 22002 INDUSTRIAL CONTROLS

Introduction to control of AC and DC machinery by electromechanical and solid state devices. Study of circuits,

troubleshooting methods and logic systems. Prerequisite: EERT 12010 or EERT 22000; and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College
EERT 22003 TECHNICAL COMPUTING
An introduction to digital computer systems, flowchart techniques, programming using a scientific high-level language with applications. Number system conversions, binary codes, error detection and correction. Boolean algebra. Corequisite: MATH 19001 or 11009.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EERT 22004 DIGITAL SYSTEMS

Modern integrated digital logic families. Analysis and design of digital circuits such as gates, multivibrators, comparators, counters, registers including interface, control memory and computer circuits. Programmable logic controllers and integrated circuit technologies. Prerequisite: EERT 22003.
4.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

EERT 22005 INSTRUMENTATION

Introduction to modern instrument techniques, includes signal to noise enhancement, active filters, phase locked loops, lock-in-amplifiers, box car integrators, averages and correlator. Prerequisite: EERT 12010.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EERT 22006 ELECTRICAL MACHINES

Introduction to transformer action, losses and efficiency. Fundamentals of DC and AC motors and generators and three phase systems. Prerequisite: EERT 12001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EERT 22007 INDUSTRIAL MOTOR CONTROL AND APPLICATION

Application and use of DC, single and polyphaser electric motors and industrial control systems. Construction, troubleshooting and operation of starting systems is emphasized. Prerequisite: EERT 22000.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate



Schedule Types: Combined Lecture/Lab
Department: Regional College

EERT 22011 ELECTRONIC SYSTEMS

Continuation of EERT 12010. Frequency effects, Miller's Theorem, decibel notation and negative feedback, Oscillators, Op-amps, circuits and applications, Thyristors and electronically regulated power supplies. Prerequisite: EERT 12010.

2.000 Credit hours

1.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

EERT 22013 INDUSTRIAL ELECTRONICS

Solid state devices used in industry, emphasizing thyristors, thyatrons, relaxation oscillators, timing circuits, solid state switches and power supply regulation. Prerequisite: EERT 12010 or 22002.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

EERT 22014 MICROPROCESSORS AND ROBOTICS

An introduction to microprocessor system fundamentals, software and hardware, architecture and instruction set, with applications to robot systems motor control, speech and sensor programming. Prerequisite: EERT 22003 or 22004.

4.000 Credit hours

3.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

EERT 22015 ROBOTICS AND ADVANCED MICROSYSTEMS

An advanced course in microprocessor software and hardware. Input/output devices and interfacing with applications to robotics. Troubleshooting and design of microprocessor controlled systems. Prerequisite: EERT 22014.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

EERT 22016 PRODUCTIVITY SOFTWARE FOR INDUSTRY

Introduces students to the use of computers for word processing, spreadsheets and database management applications. Students receive hands-on training on the use of the software applicable to engineering problems using hands-on formats. Repeatable for a maximum of 3 credit hours. Prerequisite: none.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

EERT 22017 APPLIED ENGINEERING SOFTWARE

A course on the use of the computer as a problem solving tool for applications in engineering and manufacturing. Emphasis is on the use of productivity software training on the use of the software applicable to engineering problems using hands-on workshop formats. Prerequisite: EERT 22003.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

EERT 22018 PC/NETWORK ENGINEERING AND TROUBLESHOOTING

A course covering the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks will be covered. Students will learn communication protocols and network architecture. Two lectures and two labs. Prerequisite: EERT 22014.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

EERT 22095 SPECIAL TOPICS IN ELECTRICAL/ELECTRONIC AND RELATED ENGINEERING TECHNOLOGIES

Special topics in electrical/electronic engineering technology. Repeated registration permitted. Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

EERT 23000 SENSORS

A study of sensors, transducers, relays, solenoids, servomotors, actuators, lasers, LEDs, photonic and temperature sensors and electronic devices in electromechanical control. Prerequisite: Sophomore standing.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

Environmental Health Sciences (EHS)**EHS 50196 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH SCIENCES**

(repeatable for maximum 6 credits)
Individual graduate investigation or research in areas related to environmental health sciences. Prerequisite: graduate standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation
Department: Public Health

EHS 52018 ENVIRONMENTAL HEALTH CONCEPTS IN PUBLIC HEALTH

Provides a comprehensive overview of the core topics in environmental health as related to public health. Prerequisite:

graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

EHS 53009 EMERGING ENVIRONMENTAL HEALTH ISSUES AND RESPON

Provides an overview of emerging environmental health issues that will impact the public's health. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

EHS 53012 ENVIRONMENTAL AND OCCUPATIONAL HEALTH

Survey of major concepts and issues relating health and safety in the workplace. Emphasis is on the application of public health principles and decision-making practices used by various worker populations for the prevention of injury and disease on the job. Protective equipment, hazardous conditions, environmental toxins, risk assessment and prevention science guides discussions. Prerequisites: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

EHS 63010 APPLIED RISK ASSESSMENT

Introduces the student to environmental and occupational hazards, assessing the risks associated with hazard exposure. Standard principles of risk assessment are emphasized including methods of hazard identification and regulation, quantitative exposure measurement, dose and toxicity relationships and risk management. Analysis of public policy regulatory guidance and health advisory watchdog recommendations are evaluated. Prerequisites: EPI 52017 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

EHS 63011 APPLICATION OF RISK ANALYSIS IN ENVIRONMENTAL HEALTH

Students are introduced to methods in risk analysis that are applied by U.S. federal, state, and local agencies in their



assessment of chemical toxicants. Linkages between risk assessment, risk management, and risk communication will be studied as components of this process, along with issues and controversies in the analysis of environmental health risks.

Prerequisites: EPI 52017 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

Engineering of Information Technology (EIRT)

EIRT 22030 SURVEY OF INFORMATION TECHNOLOGY

An introductory course in modern methods and techniques used for information acquisition, processing, storage, conversion, transmission and display.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

EIRT 22032 PC NETWORK ENGINEERING II

A course dealing with the network concepts and methodologies, implementation, monitoring, performance evaluation, service, optimization and control of modern network systems. Two hours lecture and two hours lab. Prerequisite: EERT 22018.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

EIRT 22033 FIBER OPTICS TECHNOLOGY

A course in the concepts and application of fiber optic technology to industrial, medical, local area networks and digital communication systems. One hour lecture and 2 hours lab. Prerequisite: MATH 19002 and EERT 12001.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

Exercise, Leisure and Sport (ELS)

ELS 63094 COLLEGE TEACHING IN EXERCISE, LEISURE AND SPORT

Guided teaching experiences in educational settings. Repeated registration permitted. Prerequisite: Special approval and graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Education

ELS 65025 CONTEMPORARY ISSUES IN SPORT PEDAGOGY

Investigation and study of current problems, issues and trends in sport pedagogy.

Prerequisites: ELS 65044 and 65055 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Education

ELS 65192 INTERNSHIP IN PHYSICAL FITNESS TESTING PROGRAMS

Field experience in physical fitness programs and testing in Kent adult fitness program cooperating agencies. Repeated registration permitted. Prerequisite: Special approval and graduate standing.

2.000 TO 8.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Education

ELS 73020 KNOWLEDGE GENERATION IN EXERCISE, LEISURE AND SPORT

This course examines issues involved in the generation, organization, dissemination and use of scientific and scholarly knowledge in exercise, leisure and sport.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Education

ELS 73052 ADVANCED RESEARCH DESIGN AND STATISTICS IN EXERCISE, LEISURE AND SPORT

Advanced topics in research and statistical analysis with computer applications in exercise, leisure and sport. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Education

ELS 73094 COLLEGE TEACHING IN EXERCISE, LEISURE AND SPORT

Guided teaching experiences in educational settings. Prerequisite: Special approval and doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Education

ELS 75097 COLLOQUIUM IN SPORT AND RECREATION STUDIES

Consideration of current scholarly issues in sport and recreation studies related to potential student research topics.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: Education

ELS 75192 INTERNSHIP IN PHYSICAL FITNESS TESTING PROGRAMS

Field experience in physical fitness programs and testing in Kent adult fitness program cooperating agencies.

Prerequisite: Special approval and doctoral standing.

2.000 TO 8.000 Credit hours

14.000 TO 56.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Education

Executive Master's Business Administration (EMBA)

EMBA 67007 COMPUTER SYSTEMS-EMBA

An introduction to the use of computers in business decision making. Prerequisite: admission to the EMBA and graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67010 EXECUTIVE COMMUNICATIONS-EMBA

Analysis and practice of written, verbal and nonverbal communication skills as they apply to managerial and work group productivity and quality of work life. Prerequisite: graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67021 BUSINESS CONDITIONS ANALYSIS AND FORECASTING-EMBA

Presentation and analysis of the factors that determine real Gross National Product, employment and unemployment, and inflation, with emphasis on application and forecasting. Prerequisite: graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

EMBA 67022 MANAGERIAL ECONOMICS-EMBA

Analysis of managerial decision-making within the economic environment with emphasis on the firm's economic decisions under different market and business conditions. Prerequisite: graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Economics

**EMBA 67031 FINANCIAL REPORTING FOR EXECUTIVES-EMBA**

Study of basic principles, concepts and financial reporting for external users and the impact this will have on executive decisions. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67032 ACCOUNTING INFORMATION FOR EXECUTIVES-EMBA

Study of managerial decision-making through planning and control techniques. Major emphasis will be on profit planning, responsibility accounting, cost behavior patterns and application of accounting data to basic planning and control decisions. Prerequisite: graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67040 OPERATIONS MANAGEMENT-EMBA

This course is designed for executives who have minimal experience with the production or operations phase of business. In this course they will develop skill in defining operating problems, in identifying alternative solutions and selecting the most viable solution. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67041 APPLIED STATISTICAL ANALYSIS-EMBA

An analysis of univariate and multivariate statistical models and the use of these models to solve practical problems. A comparison of classical and neoclassical statistical approaches is also conducted. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67042 MANAGEMENT INFORMATION SYSTEMS-EMBA

Synthesis of computer/information technology organization behavior and functional aspects of business to enhance decision-making and strategic planning skills of the manager. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67043 DYNAMICS OF LEADERSHIP FOR EXECUTIVES-EMBA

Leadership skills including: team development, conflict resolution, negotiation, communications and project development. These skills along with ethical considerations are developed to enhance business decision making. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67051 MARKETING MANAGEMENT-EMBA

The various elements comprising marketing strategy are studied as components of integrated programs directed toward industrial and consumer markets.

Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67058 MARKETING STRATEGY AND PLANNING-EMBA

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67061 FINANCIAL PLANNING AND STRATEGY-EMBA

Problems and approaches to financial decision-making in business enterprises: controlling the allocation of funds among both current and fixed assets, assessing financial needs, and planning the mix and methods of financing. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67062 MONEY AND CAPITAL MARKETS-EMBA

Analysis and evaluation of the structure, functions and characteristics of domestic and international money and capital markets as the financing mechanism for business and non business systems.

Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67070 ORGANIZATIONAL ANALYSIS AND DESIGN-EMBA

The course is concerned with the development of both theoretical and practical concepts related to complex work organizations. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67071 HUMAN RESOURCE MANAGEMENT-EMBA

The course will deal with some of the major areas of interest to the management of human resources. Special emphasis will be placed on areas of staff planning, such as job analysis and selection. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67082 LEGAL AND SOCIAL IMPACT ON MANAGERIAL DECISION-MAKING-EMBA

Managerial decision-making is examined in terms of the real and potential impacts of the legal, political and social environment of business. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67084 MULTINATIONAL BUSINESS MANAGEMENT-EMBA

The course covers the management of multinational corporations, including environmental and cultural aspects and the financial marketing production and personnel functions of international operations. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67085 EXECUTIVE POLICIES AND PLANNING-EMBA

The course concentrates on the determination of corporate strategy in the business firm and its implementation through appropriate organizational arrangements and procedures. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

EMBA 67090 APPLIED RESEARCH DESIGN-EMBA

Introduction to research design in management. The course deals with the applications of the scientific method to solving organizational problems with a



decision making context. Prerequisite: graduate standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 67091 SEMINAR IN EXECUTIVE SKILLS DEVELOPMENT-EMBA

A series of seminars developing managerial skills such as communications, leadership teamwork project and time management etc. Offered primarily in first year of program. Prerequisite: graduate standing.
1.000 OR 2.000 Credit hours
1.000 OR 2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Business Administration

EMBA 67096 APPLIED RESEARCH PROJECT-EMBA

A research project based on an applied business or economic problem will be conducted under the direct supervision of a participating faculty member in the EMBA program. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Business Administration

EMBA 67191 SEMINAR IN CURRENT ISSUES FOR EXECUTIVE DEVELOPMENT-EMBA

A series of seminars on current managerial, technological or economic problems facing the executive in today's society. Emphasis on global issues. Prerequisite: graduate standing.
1.000 OR 2.000 Credit hours
1.000 OR 2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Business Administration

EMBA 67291 EMBA RESIDENCY SEMINAR

A two-to-four-day intensive introduction to basic concepts and integration of EMBA program content. Emphasis on group analysis and/or simulation. Prerequisite: graduate standing.
1.000 OR 2.000 Credit hours
1.000 OR 2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Business Administration

EMBA 77007 COMPUTER SYSTEMS-EMBA

An introduction to the use of computers in business decision making. Prerequisite: special approval and doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77010 EXECUTIVE COMMUNICATIONS-EMBA

Analysis and practice of written, verbal and nonverbal communication skills as they apply to managerial and work group productivity and quality of work life. Prerequisite: doctoral standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77021 BUSINESS CONDITIONS ANALYSIS AND FORECASTING-EMBA

Presentation and analysis of the factors that determine real Gross National Product, employment and unemployment, and inflation with emphasis on application and forecasting. Prerequisite: Doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77022 MANAGERIAL ECONOMICS-EMBA

Analysis of managerial decision-making within the economic environment with emphasis on the firm's economic decisions under different market and business conditions. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77031 FINANCIAL REPORTING FOR EXECUTIVES-EMBA

Study of basic principles, concepts and financial reporting for external users and the impact this will have on executive decisions. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77032 ACCOUNTING INFORMATION FOR EXECUTIVE ACTION-EMBA

Study of managerial decision-making through planning and control techniques. Major emphasis will be on profit planning, responsibility accounting, cost behavior patterns and application of accounting data to basic planning and control decisions. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77040 OPERATIONS MANAGEMENT-EMBA

This course is designed for executives who have minimal experience with the production or operations phase of business. In this course they will develop skill in defining operating problems in identifying

alternative solutions and selecting the most viable solution. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77041 APPLIED STATISTICAL ANALYSIS-EMBA

An analysis of univariate and multivariate statistical models and the use of these models to solve practical problems. A comparison of classical and neoclassical statistical approaches is also conducted. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77042 MANAGEMENT INFORMATION SYSTEMS-EMBA

Synthesis of computer/information technology organization behavior and functional aspects of business to enhance decision making and strategic planning skills of the manager. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77043 DYNAMICS OF LEADERSHIP FOR EXECUTIVE-EMBA

Leadership skills including: team development conflict resolution negotiation communications and project development. These skills along with ethical considerations are developed to enhance business decision making. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77051 MARKETING MANAGEMENT-EMBA

The various elements comprising marketing strategy are studied as components of integrated programs directed toward industrial and consumer markets. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77058 MARKETING STRATEGY AND PLANNING-EMBA

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations. Prerequisite: doctoral standing.
2.000 Credit hours



2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77061 FINANCIAL PLANNING AND STRATEGY-EMBA

Problems and approaches to financial decision making in business enterprises: controlling the allocation of funds among both current and fixed assets, assessing financial needs, and planning the mix and methods of financing. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77062 MONEY AND CAPITAL MARKETS-EMBA

Analysis and evaluation of the structure, functions and characteristics of domestic and international money and capital markets as the financing mechanism for business and non-business systems. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77070 ORGANIZATIONAL ANALYSIS AND DESIGN-EMBA

The course is concerned with the development of both theoretical and practical concepts related to complex work organizations. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77071 HUMAN RESOURCE MANAGEMENT-EMBA

The course will deal with some of the major areas of interest to the management of human resources. Special emphasis will be placed on areas of staff planning such as job analysis and selection. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77082 LEGAL AND SOCIAL IMPACT ON MANAGERIAL DECISION-MAKING-EMBA

Managerial decision-making is examined in terms of the real and potential impacts of the legal, political and social environment of business. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77084 MULTINATIONAL BUSINESS MANAGEMENT-EMBA

ELD EMBA 67084 + EMBA 77084
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77085 EXECUTIVE POLICY AND PLANNING-EMBA

The course concentrates on the determination of corporate strategy in the business firm and its implementation through appropriate organizational arrangements and procedures. Prerequisite: doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77090 APPLIED RESEARCH DESIGN-EMBA

Introduction to research design in management. The course deals with the applications of the scientific method to solving organizational problems with a decision-making context. Prerequisite: doctoral standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

EMBA 77091 SEMINAR IN EXECUTIVE SKILLS DEVELOPMENT-EMBA

A series of seminars developing managerial skills such as communications, leadership, teamwork, project and time management, etc. Offered primarily in first year of program. Prerequisite: doctoral standing.
1.000 OR 2.000 Credit hours
1.000 OR 2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Business Administration

EMBA 77096 APPLIED RESEARCH PROJECT-EMBA

A research project based on an applied business or economic problem will be conducted under the direct supervision of a participating faculty member in the EMBA program. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Business Administration

EMBA SEMINAR IN CURRENT ISSUES FOR EXECUTIVE DEVELOPMENT-EMBA

A series of seminars on current managerial, technological or economic problems facing the executive in today's society. Emphasis on global issues. Prerequisite: doctoral standing.
1.000 OR 2.000 Credit hours
1.000 OR 2.000 Other hours
Level: Graduate
Schedule Types: Seminar

Department: Business Administration

EMBA 77291 EMBA RESIDENCY SEMINAR

A two-to-four-day intensive introduction to basic concepts and integration of EMBA program content. Emphasis on group analysis and or simulation. Prerequisite: doctoral standing.
1.000 OR 2.000 Credit hours
1.000 OR 2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Business Administration

English (ENG)

ENG 10101 COLLEGE ENGLISH I FOR FOREIGN STUDENTS

Basic expository essay for nonnative students. Emphasis on selection and organization of material, rhetorical patterns, clear and effective expression. Grammar and mechanics as needed. Prerequisite: Grade of C (2.0) or better in ENG 10205 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10201 ELEMENTARY ESL WRITING II

Writing proficiency in English established through enhancing knowledge of paragraph structure and development. Prerequisite: Special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10202 INTERMEDIATE ESL WRITING I

Introduction to the requirements of academic writing. Students will be introduced to the process model of writing, constructing a summary, paraphrasing and academic essay structure. Prerequisite: Grade of C (2.0) or better in ENG 10201 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10203 INTERMEDIATE ESL WRITING II

Use of the short academic essay to narrate a sequence of events, express an opinion or communicate an idea. Continued instruction in the writing process, academic summary and paraphrase for the ESL writer. Prerequisite: Grade of C (2.0) or better in ENG 10202 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

**ENG 10204 ADVANCED ESL WRITING I**

Expanded understanding of the form and requirements of the academic essay. Acquisition of rhetorical modes of development for the ESL writer. Continued instruction in writing process model and academic summary. Prerequisite: Grade of C (2.0) or better in ENG 10203 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10205 ADVANCED ESL WRITING II

Course concentrates on how to interpret, respond to and incorporate outside sources into the academic essay. Continued instruction in the acquisition of rhetorical modes of development for the ESL writer. Prerequisite: Grade of C (2.0) or better in ENG 10204 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10211 ELEMENTARY ESL SPEAKING AND VOCABULARY II

Course develops basic speaking and comprehension skills and builds vocabulary for survival purposes. An integrated-skills course with an emphasis on speaking and vocabulary development in various situations and contexts. Prerequisite: Special approval.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10212 INTERMEDIATE ESL SPEAKING AND VOCABULARY I

Based on an integrated-skills approach, this course moves students' language use beyond survival English to levels of sustained conversation in a variety of contexts. Prerequisite: Grade of C (2.0) or better in ENG 10211 and special approval.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10213 INTERMEDIATE ESL SPEAKING AND VOCABULARY II

Based on an integrated-skills approach, this course features communicative activities with complex language structures and introduces abstract vocabulary. Other language skills support the development of speaking and vocabulary skills.

Prerequisite: Grade of C (2.0) or better in ENG 10212 and special approval.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10214 ADVANCED ESL SPEAKING AND VOCABULARY I

While all skills are integrated into this course, it focuses on building skills for sustained discourse in complex topics issues and concepts. Emphasis is on vocabulary and speaking skills, planning events, presentations and discussions. Prerequisite: Grade of C (2.0) or better in ENG 10213 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10215 ADVANCED ESL SPEAKING AND VOCABULARY II

Course develops advanced speaking skills to engage students in complex communicative activities, both real and simulated with an emphasis on language for academic and professional use. Continues to develop sophisticated vocabulary. Prerequisite: Grade of C (2.0) or better in ENG 10214 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10216 ADVANCED ESL SPEAKING AND VOCABULARY III

Course strengthens existing high levels of oral language skills for consistent and sustained use in professional and academic settings and various other contexts. Prerequisite: Special approval.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10221 ELEMENTARY ESL READING II

An introduction to reading strategies and skills needed when encountering authentic reading materials. Taught as an integrated skills approach course emphasizing engagement in contextualized and communicative activities. Prerequisite: Special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10222 INTERMEDIATE ESL READING I

Develops intermediate reading strategies and skills needed when encountering authentic reading materials. Taught as an integrated skills approach course emphasizing engagement in contextualized and communicative activities. Prerequisite: Grade of C (2.0) or better in ENG 10221 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10223 INTERMEDIATE ESL READING II

Continued development of and practice in intermediate reading strategies and skills using a variety of cultural materials. Instruction emphasizes integrated skills approach and involvement in communicative activities. Prerequisite: Grade of C (2.0) or better in ENG 10222 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10224 ADVANCED ESL READING I

Builds low-advanced reading strategies and skills using a variety of text types. This course features an integrated skills approach and engages students in a number of communicative activities. Prerequisite: Grade of C (2.0) or better in ENG 10223 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10225 ADVANCED ESL READING II

Further advances reading strategies and skills necessary for understanding academic texts. This course features an integrated skills approach and focuses on contextualized and communicative activities. Prerequisite: Grade of C (2.0) or better in ENG 10224 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10231 ELEMENTARY ESL LISTENING II

Examination of and practice in basic listening strategies. Practice listening to typical speech, short texts and dialog. Practice, relate and apply strategies to life on campus. Prerequisite: Placement test.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 10232 INTERMEDIATE ESL LISTENING I

Practice in listening strategies for intermediate-level students. Practice, apply and relate listening skills to life at an American university. Prerequisite: Placement test or successful completion (C or better) of ENG 10231.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

**ENG 10233 INTERMEDIATE ESL LISTENING II**

Continued practice of intermediate-level listening strategies. Includes practice in listening to colloquial English, longer dialogs and authentic texts for main ideas and specific details, and compensating for listening difficulties. Prerequisite: Placement test or successful completion (C or better) of ENG 10232.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10234 ADVANCED ESL LISTENING I

Examination and practice in listening strategies for low-advanced students. Includes practice in listening to authentic texts, including TV, radio, news and university lectures. Prerequisite: Placement test or successful completion (C or better) of ENG 10233.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10235 ADVANCED ESL LISTENING II

Practice with listening strategies for advanced students. Includes practice in listening to authentic English texts, understanding schemata, using top down and bottom-up strategies, TV news, note taking skills and university lectures. Prerequisite: Placement test or successful completion (C or better) of ENG 10234.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10241 ELEMENTARY ESL GRAMMAR II

An introductory level course on basic grammar. Introduces fundamental rules of usage parts of speech sentence structure, questions, short answers, negations and functions of simple and continuous verb tenses. Prerequisite: Special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10242 INTERMEDIATE ESL GRAMMAR I

A low-intermediate level course on grammar which includes an examination of form and function, an expansion on verb tenses and an introduction to modals, passive voice and reported speech. Prerequisite: Grade of C (2.0) or better in ENG 10241 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: English

ENG 10243 INTERMEDIATE ESL GRAMMAR II

An intermediate-level course with a contextual approach to English grammar to develop students' knowledge of syntactic structures, verb tenses, modifier form and function, nouns and dependent clauses. Prerequisite: Grade of C (2.0) or better in ENG 10242 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10244 ADVANCED ESL GRAMMAR I

Contributes to building academic language skills, this course reviews verbal aspect, tense, modality, sentence patterns, the passive voice, reported speech, forms expressing contrast, cause and effect and conditional and introduces verbal forms. Prerequisite: Grade of C (2.0) or better in ENG 10243 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10245 ADVANCED ESL GRAMMAR II

Continued development of skills necessary for academic performance. Identifying, analyzing and paraphrasing of structures occurring in academic settings, including verb types and sentence patterns, clause reduction, cause and effect and conditional. Prerequisite: Grade of C (2.0) or better in ENG 10244 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10250 ESL PRONUNCIATION

Based on a diagnostic test, course focuses on stress, intonation, weak/strong forms and adequate pronunciation of sounds for effective meaning transfer and comprehension. Prerequisite: None.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10261 ESL: INTRODUCTION TO AMERICAN LITERATURE I

Develops an understanding of a variety of American literary forms, including oral tradition, fables, myths, folk tales and their types, songs and films. Explores the cultural diversity of North America through the stories of its people. Prerequisite: Special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: English

ENG 10262 ESL: INTRODUCTION TO AMERICAN LITERATURE II

Utilizes short stories, plays and poems as textual sources to build toward a critical understanding of literary genres within the ethnically diverse nature of American literature. Prerequisite: Grade of C (2.0) or better in ENG 10261 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10263 ESL: INTRODUCTION TO CHILDREN'S LITERATURE

An introductory survey of classic and contemporary children's literature, pre-k through 7. Provides an analysis of various genres. Includes a cross-cultural overview of the history, development and criticism of children's literature. Prerequisite: Grade of C (2.0) or better in ENG 10262 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10264 ESL: INTRODUCTION TO ADOLESCENT LITERATURE

An introductory survey of classic and contemporary adolescent and young adult literature (grades 7-12). Provides an overview of genre. Addresses developmental stages of young adulthood as a guideline for working with learners across cultures. Prerequisite: Grade of C (2.0) or better in ENG 10262 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10266 ESL: INTRODUCTION TO THE CULTURE OF NORTH AMERICA

A content-based course which examines core American values and beliefs. Introduces topics such as family, education, religion, government, violence, diversity. Prerequisite: Special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10267 ESL: AMERICAN INSTITUTIONS

Course emphasizes core American values and beliefs. Includes topics such as family, education, religion, government, violence, diversity. Discusses concepts of cultural norms, amalgamation, assimilation, pluralism and ethnocentrism. Prerequisite: Grade of C (2.0) or better in ENG 10266 and special approval.
3.000 Credit hours
3.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10268 ESL: IMAGES AND ICONS IN TV, FILM AND TECHNOLOGY

Explores values and traditions of American culture as revealed in TV programs, films, TV and print-based advertisements. Contributes to increased comprehension of cultural attitudes toward marriage and family, work roles, and diversity. Prerequisite: Grade of C (2.0) or better in ENG 10266 and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10274 ESL: LANGUAGE SKILLS FOR TOEFL I

Focusing on the development of lexico-grammatical knowledge as well as listening and reading skills, this course is designed to help students prepare for the TOEFL test and succeed in academic settings. Prerequisite: Special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10275 ESL: LANGUAGE SKILLS FOR TOEFL II

Continued development of lexico-grammatical knowledge (including idiomatic language) as well as listening and reading skills. Designed to further prepare students for the TOEFL and succeed in academic settings. Prerequisite: Special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10284 ESL TECHNICAL WRITING

Introduces principles of technical writing appropriate to professional communication. Provides practice in the production and evaluation of technical documents including research reports, proposals and instruction manuals. Prerequisite: Special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10285 ESL BUSINESS ENGLISH

Instruction in principles of effective business communication and practical application of those principles in writing letters, memos, e-mail and reports. Prerequisite: Special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10290 ESL UNIVERSITY ORIENTATION

Assist ESL students in making the transition to the university, familiarizing students with campus life, refining language and study skills, exploring of relevancy of such skills in various majors. Prerequisite: Special approval. 1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 10295 SPECIAL TOPICS IN ESL

Special topics in content-based teaching of English as a second language. Prerequisite: Special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 11001 INTRODUCTION TO COLLEGE WRITING-STRETCH

Introduces the instruction and experiences necessary for students to acquire college-level literacy, with an emphasis on reading and writing college level texts. Prerequisite: ACT combined English and writing score 1-16; or SAT writing score 200-420; or COMPASS writing score of 0-68. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 11002 COLLEGE WRITING I-STRETCH

Continues the instruction and practice necessary to write for college, with emphasis on the reading, thinking, writing and technological skills necessary for writing college level texts. Completion of this course is the same as ENG 11011. Prerequisite: grade of C (2.0) or better in ENG 11001; and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Kent Core-Composition, Transfer Module-Composition

ENG 11011 COLLEGE WRITING I

The study and practice of academic writing, including an introduction to rhetorical principles, the writing process, critical reading research and technology. Prerequisites: ACT combined English/Writing score of 17-26; or SAT writing score of 430-590; or Compass writing score 69 and above. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Kent Core-Composition, Transfer Module-Composition

ENG 20002 INTRODUCTION TO TECHNICAL WRITING

Introduction to communication practices within technical communities. Planning, drafting, revising and editing. Process descriptions, object descriptions, instructional texts, technical correspondence, problem reports, critical reflection. Prerequisite: ENG 11011 or HONR 10197. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 20021 INTRODUCTION TO CREATIVE WRITING

Practice in various forms of creative writing with some emphasis on student interests and on sources of creativity. Prerequisite: ENG 11011 or 11002 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 21001 INTRODUCTION TO ETHNIC LITERATURE OF THE UNITED STATES

Study of selected ethnic American writers; may include works by African, Asian, Hispanic, Jewish, Native Americans and other groups. Prerequisite: ENG 11011 or 11002 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Diversity Course-Domestic

ENG 21002 INTRODUCTION TO WOMEN'S LITERATURE

Introduction to works by women writing in English, and to literary and gender issues they raise. Prerequisite: ENG 11011 or 11002 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Diversity Course-Domestic

ENG 21003 INTRODUCTION TO LGBT LITERATURE

Introduction to lesbian, gay, bisexual and transgendered literature in English and to issues of gender, sexuality and culture raised by this literature. Prerequisite: ENG 11011 or 11002 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.



3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Diversity Course-Domestic

ENG 21011 COLLEGE WRITING II

Continuation of college-level writing instruction with emphasis on research and inquiry, culminating in a lengthy written and/or multi-modal project. Prerequisites: ENG 11011 or ENG 11002 or HONR 10197 with a grade of C- (1.7) or above; or ACT combined English/Writing score of 27 and above; or SAT Writing score of 600 and above.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Kent Core-Composition, Transfer Module-Composition

ENG 21054 INTRODUCTION TO SHAKESPEARE

Study of representative plays and poems in the context of Shakespeare's age, his language and his cultural influence. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Kent Core-Humanities, Transfer Module-Humanities

ENG 22071 GREAT BOOKS I

Great works of world literature read in English, from ancient world to 1700, covering a wide range of ethnic and national voices, genres and traditions. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Kent Core-Humanities, Transfer Module-Humanities

ENG 22072 GREAT BOOKS II

Great works of world literature read in English, from 1700 to today, covering a wide range of ethnic and national voices, genres and traditions. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Kent Core-Humanities, Transfer Module-Humanities

ENG 22073 MAJOR MODERN WRITERS: BRITISH AND UNITED STATES

Introduction to British and U.S. writers of the 20th century; study of their works in their literary and cultural contexts. Prerequisite: none.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Kent Core-Humanities, Transfer Module-Humanities

ENG 25001 LITERATURE IN ENGLISH I

British literature written before 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature. Pre/corequisite: ENG 11011 or ENG 11002 or HONR 10197.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: TAG Arts/Humanities

ENG 25002 LITERATURE IN ENGLISH II

British literature written since 1800 studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature. Prerequisite: ENG 11011 or 11002 or HONR 10197 With minimum C- or ACT combined English/Writing score of 26 OR SAT Writing score of 600.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 25004 LITERATURE IN THE UNITED STATES I

U.S. literature from the colonial period until 1865 studies within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature. Prerequisite: ENG 11011 or HONR 10197.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 25005 LITERATURE IN THE UNITED STATES II

U.S. literature from 1865 to the present studied within a broad historical context. Comprehensive introduction to knowledge and skills that serve as a foundation for further study in literature. Prerequisite: ENG 11011 or HONR 10197.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 26001 POPULAR FORMS OF LITERATURE

Introduction to popular forms of literature such as the western, the detective story, science fiction, fantasy, the war story and others. Prerequisite: ENG 11011 or 11002 or HONR 10197 or ACT combined

English/Writing score of 26 or higher or SAT Writing score of 600 or higher..

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 26095 SOPHOMORE SPECIAL TOPICS

In-depth study of a particular writer, theme or literary movement, such as literature and film, gothic novels. Prerequisite: ENG 11011 or 11002 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 30001 ENGLISH STUDIES

Writing about and reading in a variety of texts and critical modes as an introduction to critical thinking and writing. Emphasis on the application of principles and methods of literary study to selected texts. Prerequisite: ENG 21011 or HONR 10297.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Writing Intensive Course

ENG 30062 PRINCIPLES OF TECHNICAL WRITING

Introduces theoretical principles of technical communication. Extensive practice in the use, evaluation and production of complex technical documents including research reports/research proposals. Emphasis on oral, written and electronic communication. Prerequisite: 21011 and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 30063 BUSINESS AND PROFESSIONAL WRITING

Analysis of how textual genre functions in business and professional settings. Students gain extensive individual and collaborative practice writing in these genres. Prerequisite: ENG 21011 or HONR 10297; and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: TAG Business

ENG 30064 ARGUMENTATIVE PROSE WRITING

Practice in writing argumentative essays, with emphasis on discussion of student work. Prerequisite: ENG 21011 or HONR 10297.
3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 30065 EXPOSITORY PROSE WRITING

Practice in prose composition with emphasis on exposition and discussion of student work. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 30066 WRITING IN THE PUBLIC SPHERE

Writing course focusing on a multimodal service-learning project collaborating with peer and community partners in an online, hybrid or face-to-face delivery system.

Prerequisite: grade of C- (1.7) in ENG 21011 or ENG 10002 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 30067 FICTION WRITING I

Instruction and practice in writing fiction with specific models and discussions of student work on a weekly basis.

Prerequisite: ENG 20021.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 30068 FICTION WRITING II

Continued instruction and practice in writing of fiction with specific models and discussion of student work on a weekly basis. Prerequisite: ENG 30067.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 30069 POETRY WRITING I

Instruction in and practice of writing poetry with specific models and discussion of student work on a weekly basis.

Prerequisite: ENG 20021.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 30070 POETRY WRITING II

Continued practice in writing of poetry with specific models and discussion of student work on a weekly basis. Prerequisite: ENG 30069.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 30095 JUNIOR SPECIAL TOPICS

An opportunity to focus on important issues in literature, writing, criticism or cultural studies. Prerequisite: Junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 31001 FUNDAMENTAL ENGLISH GRAMMAR

Study of grammatical structures and matters of usage and style in edited U.S. English. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 31002 HISTORY OF THE ENGLISH LANGUAGE

Study of the development of the English language from the Indo-European period to the present. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 31003 LINGUISTICS

Survey of language study including linguistic tools of analysis such as phonetics, morphology and syntax, and selected topics in applied linguistics.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 31004

LEXICOLOGY/LEXICOGRAPHY

In-depth study of the lexicon in language use and the reasons for its expansion and continuous change. Study of tools in lexicography and analysis of the role of lexicography in language education.

Prerequisite: ENG 31003.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 31005 CHILD SECOND LANGUAGE ACQUISITION

Explores theory, research and teaching/learning applications of second language acquisition in children.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 31006 WORLD ENGLISHES

Explores English varieties in the context of world languages, examining language politics with a focus on first/second

language education and literacy in an electronic age. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Writing Intensive Course

ENG 31007 TESL PEDAGOGY I

Theoretical bases, approaches, techniques of second language pedagogy at the elementary and secondary levels. Inquiry into ESL methods, materials and lesson planning. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 31008 GRAMMAR FOR TEACHING ENGLISH AS A SECOND LANGUAGE/TEACHING ENGLISH AS A FOREIGN LANGUAGE

Introduces students to grammars of spoken and written English and pedagogical grammar. Topics include parts of speech, tense and aspect, clause and phrase types, grammar in genre and pedagogical applications relevant to the English as a second/foreign language profession.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 31095 SPECIAL TOPICS IN LINGUISTICS

Study of specific topics in linguistics such as sociolinguistics, phonetics and phonology or bi- and multi-lingualism.

Prerequisite: ENG 21011.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 32001 CHILDREN'S LITERATURE

Survey of children's literature from Mother Goose rhymes and picture books through modern realistic fiction. Prerequisite: ENG 11011 or 11002 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 32002 LITERATURE FOR YOUNG ADULTS

Study of literature appropriate to young adults. Prerequisite: ENG 11011 or 11002 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.

3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 33001 U.S. LITERATURE TO 1865

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the Colonial period through the Civil War. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 33002 U.S. LITERATURE FROM 1865 TO 1945

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of the Civil War through World War II.

Prerequisite: ENG 21011 or HONR 10297.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 33003 U.S. LITERATURE FROM 1945 TO PRESENT

U.S. literary themes, genres and authors studied in their historical and cultural contexts. Selections from the close of World War II to the present. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 33010 AFRICAN-AMERICAN LITERATURE TO 1900

Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 33012 MODERN AFRICAN-AMERICAN LITERATURE

Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley, Youngblood and Carter. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 33013 PAN-AFRICAN WOMEN'S LITERATURE

Introduces students to literary works by African and Caribbean women. Prerequisite: ENG 11011.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 33014 AFRICAN-AMERICAN WOMEN'S LITERATURE

Introduces students to literary works by African-American women. Prerequisite: ENG 11011.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 33015 AFRICAN LITERATURES

Examines works of major 20th-century African, African American and Caribbean writers and intellectuals. Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Césaire, Senghor, Soyinka and many others. Prerequisite: ENG 11011 or HONR 10197.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 34001 MEDIEVAL LITERATURE

Medieval literary themes, genres, and authors studied in their historical and cultural contexts. Selections from Anglo-Saxon and Middle English literature. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 34002 BRITISH LITERATURE, 1500-1660

British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Renaissance and Reformation literature through the English Civil War. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 34003 BRITISH LITERATURE, 1660-1800

British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Restoration, Augustan and early Romantic literature. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 34004 BRITISH LITERATURE, 1800-1900

British literary themes, genres and authors studied in their historical and cultural contexts. Selections from Romantic and Victorian literature. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 34005 BRITISH AND IRISH LITERATURE, 1900-PRESENT

British and Irish literary themes, genres and authors studied in their historical and cultural contexts. Selections from modern and post modern literature. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 34011 WORLD LITERATURE IN ENGLISH

An examination of selected writings in English by postcolonial authors from Africa, Asia, the Caribbean and other parts of the world. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Diversity Course-Global

ENG 34021 WOMEN'S LITERATURE

Critical and theoretical consideration of gender issues concerning British and U.S. women writers studied in their historical and cultural contexts. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Diversity Course-Domestic

ENG 34031 SHORT STORY

Critical analysis of short stories written by important world authors. Selections include stories originally written in English and stories translated into English. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 34055 SHAKESPEARE

Study of plays representing Shakespeare's entire career, including Henry IV parts I and II, The Merchant of Venice, Measure for Measure, Hamlet, Othello and The Tempest. Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 34065 CHAUCER

Close study of Chaucer's *Canterbury Tales*, with some attention to courtly poems and/or selected lyrics. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 34095 SPECIAL TOPICS: MAJOR AUTHOR STUDIES

Intensive study of one or more authors from the English-speaking world. This course may be repeated when topic varies.

Prerequisite: ENG 21011 or HONR 10297.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 35101 LITERATURE AND OTHER DISCIPLINES

Study of literature in relation to, or from the standpoint of, another discipline such as psychoanalysis, psychology, religion, theology, music and painting. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 35201 THE BIBLE AS LITERATURE

Study of Bible as a great book subject to literary criticism and as a main document of Western culture. Old and New Testaments read. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 35301 LGBT: CRITICAL PERSPECTIVES

Study of theory, language and other aspects of lesbian, gay, bisexual and transgendered literature and culture. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English
Course Attributes: Diversity Course-Domestic

ENG 36001 LITERARY CRITICISM

Examination of principal works and theories of major critics. Contemporary critical methodologies include reader response analysis, semiotics and cultural criticism. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 37001 CLASSICAL RHETORIC

Ancient approaches to rhetoric studied in their historical and cultural contexts. Selections from Greek and Roman thinkers such as the Sophists, Plato, Aristotle, Cicero and Quintilian. Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 37101 CRITICAL RHETORICAL STUDIES OF TEXTS IN CONTEXT

Students learn critical analytic methods and apply them to written texts, examining the rhetorical function of their linguistic elements and their relationship to rhetorical contexts. Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 37201 WRITING IN COMMUNITIES

Examines writing practices in workplace, family and local communities. Students read/write literary narratives read scholarship on community literacies and study/participate in specific writing communities. Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 39095 SPECIAL TOPICS IN LITERARY HISTORY

Study of selected literary histories such as the travel narrative, the fairy tale, the detective story, and postcolonial literature. Course may be repeated with different content. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 39195 SPECIAL TOPICS IN DRAMA

Study of selected topics, themes, or periods in drama such as Gender Construction, Obsession, or Medieval Drama. Course may be repeated with different content. Prerequisite: junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 39295 SPECIAL TOPICS IN POETRY

Study of selected topics in poetry such as poetic form, historical and cultural contexts, and artistic movements. This course may be repeated when topic varies.

Prerequisite: ENG 21011 or HONR 10297.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 39395 SPECIAL TOPICS IN FICTION

Study of selected topics in fiction such as the autobiographical novel, the novella and the short story. This course may be repeated when topic varies. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 39495 SPECIAL TOPICS IN COMPARATIVE LITERATURE

Study of selected topics in comparative literature such as movements and genres in world literature, the interrelationships of the arts. This course may be repeated when topic varies. Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 39595 SPECIAL TOPICS IN LITERARY CRITICISM

Study of selected topics in literary criticism such as reader response criticism, psychoanalytic methodologies or Marxist approaches. This course may be repeated when topic varies. Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 39695 SPECIAL TOPICS IN ETHNIC LITERATURE OF THE UNITED STATES

Study of selected topics in ethnic literature such as the literature of one ethnic group, race and ethnicity in U.S. culture. This course may be repeated when topic varies. Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 39795 SPECIAL TOPICS IN WOMEN'S LITERATURE

Study of selected topics in women's literature organized around literary, historical and theoretical issues. This course may be repeated when topic varies.



Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 39895 SPECIAL TOPICS IN RHETORIC, COMPOSITION AND WRITING

Study of selected topics in rhetoric, composition, and writing such as historical and contemporary studies of political and professional discourse. Course may be repeated with different content.

Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 39995 SPECIAL TOPICS CULTURAL STUDIES

Study of selected topics in cultural studies organized around a particular mode or methodology of cultural analysis. This course may be repeated when topic varies.

Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 40010 WRITING PORTFOLIO

Directed practice in constructing a portfolio of original writing, which may be creative expository technical or pre-professional in nature. Restricted to students in the writing minor. Prerequisite: ENG 25001 and 25002 and 30001; and junior standing and special approval.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 41001 SOCIOLINGUISTICS IN SCHOOLING

Examines the interactions between society and language. Explores pedagogical implications of language variation.

Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

Course Attributes: Writing Intensive Course

ENG 41002 COMPUTERS IN L2 TEACHING

Designed for teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with second language skills. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 41008 TESL PEDAGOGY II

In-depth analysis of theory and practice of second language pedagogy at the elementary and secondary levels. Special focus on literacy learning language for specific purposes instruction and course design. This course may be taken in the same semester as ENG 41009 student teaching. Prerequisite: ITEC 19525 and EDPF 29525 and EDPF 29535.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 41009 STUDENT TEACHING

Supervised practicum in the teaching of English as a Second Language, grades pre-12. Prerequisite: ITEC 19525 and EDPF 29525 and EDPF 29535.

Corequisite: ENG 41525.

9.000 Credit hours

9.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: English

ENG 41092 ESL/EFL PRACTICUM I

This course provides students practical teaching opportunities in teaching English as a second/foreign language. Prerequisite: none.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: English

ENG 41093 VARIABLE TITLE WORKSHOP IN ENGLISH

An opportunity to focus on concerns of the discipline and on new developments in writing, criticism, literature and career opportunities. Prerequisite: Junior standing.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: English

ENG 41096 INDIVIDUAL INVESTIGATION

Open to advanced undergraduate students in English. Only 3 hours of individual investigation count toward the English major. Prerequisite: Special approval of instructor and department and junior standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: English

ENG 41192 ESL/EFL PRACTICUM II

This course provides students seeking educational licensure opportunities in teaching English as a second/foreign language. Prerequisite: none.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: English

ENG 41292 TEACHING ENGLISH AS A FOREIGN LANGUAGE PRACTICUM

Students observe, participate, and teach in a number of school contexts in Dresden, Germany from primary to secondary, community education, and/or higher education. Expands TESL pedagogy by giving students authentic practice in the foreign language context. Repeated registration permitted for a maximum of 6 credit hours. Prerequisites: none.

3.000 OR 6.000 Credit hours

3.000 OR 6.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: English

ENG 41525 INQUIRY INTO PROFESSIONAL PRACTICE

Preparation for student teaching of ESL, grades K-12. Prerequisite: ITEC 19525 and EDPF 29525 and EDPF 29535. Corequisite ENG 41009.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 46201 NINETEENTH-CENTURY EUROPEAN LITERATURE

Major European writers of the 19th century; romanticism, realism, naturalism, symbolism and related movements.

Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 46203 TWENTIETH-CENTURY EUROPEAN LITERATURE

Major European writers of the 20th century; modernism, post-modernism and related movements. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: English

ENG 49091 SENIOR SEMINAR

Intensive study of a special topic in English studies. Students will complete a long writing project during the semester. Enrollment limited to English majors.

Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: English

Course Attributes: Writing Intensive Course

ENG 49095 SENIOR SPECIAL TOPICS

Intensive study of topics that will vary each semester. Prerequisite: ENG 30001; and ENG 25001 or ENG 25002.

3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: English

ENG 51002 COMPUTERS IN SECOND LANGUAGE TEACHING

Designed for teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with second language skills. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 51009 STUDENT TEACHING

Supervised practicum in the teaching of ESL, grades P-12. Prerequisite: Admission to student teaching and graduate standing.

9.000 Credit hours
9.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: English

ENG 56201 NINETEENTH-CENTURY EUROPEAN LITERATURE

Major European writers of the 19th century: Romanticism, Realism, Naturalism, Symbolism and related movements.

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 56203 TWENTIETH-CENTURY EUROPEAN LITERATURE

Major European writers of the 20th century: Modernism, Postmodernism and related movements. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 61000 INTRODUCTION TO RESEARCH AND PEDAGOGY IN CRITICAL READING

Introduction to contemporary methods of literary and cultural criticism and to the profession of teaching English in college. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 61094 INTRODUCTION TO RESEARCH IN THE TEACHING OF COLLEGE WRITING

Using the Kent program as an example, the focus will be on teaching composition, literature and language along with the needed planning and evaluation. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 62291 SEMINAR: BRITISH LITERATURE 1800 TO PRESENT

In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

ENG 63001 METHODOLOGY OF TESL

The theory and methodology of teaching English as a second language.

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 63031 SCHOOLS OF LINGUISTICS

Discussion of major trends in linguistic analysis and theory. Course centers on examining central questions goals and methods of major Departments of linguistics. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 63032 FUNCTIONAL LINGUISTICS

Examination of function as it occurs in the description of different levels of linguistic systems. Investigation of the theme dichotomy and method of functional analysis. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 63033 SECOND LANGUAGE ACQUISITION

This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches.

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 63034 LITERATE PRACTICES AND SOCIOLINGUISTICS

Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in

sociolinguistic thought and method. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 63037 THE PRAGMATICS OF CONVERSATION

Theories of pragmatics, conversational structure and strategies with practical applications for teaching conversation strategies to foreign second language learners. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 63038 TEACHING LITERATURE AND CULTURE

Students will explore theories of literature and culture teaching as well as strategies for teaching literature and culture.

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 63039 SECOND LANGUAGE CURRICULUM AND TESTING

Students will study second language curriculum and testing design and current issues, including oral proficiency testing. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 63040 LINGUISTICS FOR THE LANGUAGE PROFESSIONS

Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 63041 DESCRIPTIVE GRAMMAR OF ENGLISH

This course provides a description of English syntax and morphology. Presentation of material will be through rules and exposure to grammatical forms in meaningful contexts. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

**ENG 63098 RESEARCH IN SECOND LANGUAGE PEDAGOGY**

Students will learn how second language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project. Prerequisite: Special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: English

ENG 63391 SEMINAR: LINGUISTICS

In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 64070 WRITING POETRY

Advanced workshop in creative writing.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 64071 WRITING FICTION

Advanced workshop in the writing of fiction.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65011 INTRODUCTION TO THE FIELD OF WRITING: THEORY RESEARCH/PRACTICE

Survey introduces writing studies from various perspectives: rhetorical and composition theory, disciplinarily and professionalization, several 20th century theoretical influences and Soviet activity theory. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65012 READING AND INTERPRETING RESEARCH ON WRITING

Course focuses on how to read critically and interpret published research by examining the principle means through which "knowledge" is constructed in writing research. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65022 RHETORICAL THEORY: GREEK AND ROMAN

Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65023 RHETORICAL THEORY: 18TH, 19TH AND 20TH CENTURIES

Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65026 LANGUAGE AND THE HUMAN SCIENCES

Course examines how language figures in the frameworks of scholars in various human sciences and the relevance of these approaches for studying language and writing. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65027 ROLE OF COMPOSITION

Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 65035 LINGUISTICS FOR RHETORICIANS

Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 65044 RESEARCH DESIGN

Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 65050 PHILOSOPHY OF LANGUAGE

Critical examination of nature and function of language especially in relation to mental function and development. Prerequisite:

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65051 LITERACY: FUNCTIONS, PRACTICES AND HISTORY

Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ("adaptation," "power," "grace") those studies employ. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65052 WRITING ACTIVITY AS SOCIAL PRACTICE

Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65053 WRITING TECHNOLOGIES

Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 65057 SEMEIOTICS

Cross-listed with MCLS 60020 and PHIL 61055. An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics literature translation and technology. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English



ENG 66001 EARLY BRITISH LITERATURE THROUGH THE 18TH CENTURY

A broad survey spanning many centuries. This course will identify key literary and cultural trends as represented in Beowulf to Blake. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66002 BRITISH AND IRISH LITERATURE FROM THE EARLY ROMANTICS ONWARD

Broad, synchronic study of the literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66005 OLD ENGLISH

In-depth study of old English grammar and vocabulary, accompanied by guided reading of select old English texts with further reading in the history and culture of Anglo Saxon England. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66042 TEACHING ENGLISH IN SECONDARY SCHOOLS

A course for the experienced secondary English teacher who wants to explore current thinking in the teaching of literature, language and composition. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66051 SHAKESPEARE

Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66052 SURVEY OF CHILDREN'S LITERATURE

Wide reading in children's literature, with particular application to the school curriculum and the field of reading. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: English

ENG 66053 CRITICISM OF CHILDREN'S LITERATURE

A critical study of outstanding children's literature from early times to the present. Prerequisite: ENG 31038; and special approval; and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66054 BUSINESS AND TECHNICAL WRITING

Development of skills for writing business and technical material in clear, effective and correct English. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR

Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66102 LITERATURE OF THE UNITED STATES AFTER THE CIVIL WAR

Intensive survey of the major movements and cultural/ethnic diversity of American poetry, drama fiction and literary nonfiction from realism to postmodernism. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66103 ETHNIC LITERATURE OF THE UNITED STATES

An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66104 AFRICAN-AMERICAN LITERATURE

An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of

African American culture identity or history. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66301 WORLD LITERATURE IN ENGLISH

A survey of important works written in English by writers not native to Britain, Ireland or the United States. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66302 POST-COLONIAL LITERATURE IN ENGLISH

An examination of selected fiction and theory in English by post-colonial authors from India, Africa South Africa the Caribbean and elsewhere. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66401 LITERARY MOVEMENTS

An examination of one particular movement in literary history via its writers, artists benefactors thinkers political demagogues and critics. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66501 NARRATIVE LITERATURE

Close readings of selected novels, short stories biographies autobiographies life writing journals and other forms of narrative and verse by British American and other writers in English from one or more periods in literary history. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66502 DRAMATIC LITERATURE

Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States from one or more periods in literary history. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 66503 POETRY AND/OR POETIC LITERATURE

Close reading of selected poems and other poetic forms by writers of Britain, Ireland or



the united states from one or more periods in literary history. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 66504 WOMEN WRITERS

Close readings of important works written in English by women from one or more periods in literary history. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 66505 LITERARY MODES

Analysis of works, in various genres from various periods which generate similar responses with emphasis on defining source of response. Content varies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 66592 PRACTICUM IN TUTORING WRITING

Practical training and experience in tutoring composition. Prerequisite: Graduate standing.

1.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 66595 SPECIAL TOPICS: AUTHORS AND AUTHORSHIP

Research-based study of problems in the theory or practice of authorship. Typical courses include "The Creative Process," "Authors and Printers," "Faulkner in Hollywood". Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 66706 METHODS IN THE STUDY OF LITERATURE

Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field. Required for Ph.D.s specializing in Division II. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 66791 SEMINAR: BRITISH AND IRISH LITERATURE

In-depth treatment of various topics from Old English literature, Beowulf, Middle English literature and Chaucer.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 66795 SPECIAL TOPICS: COMPARATIVE LITERATURE

Selected topics in comparative literary studies that range from issues in the European novel to the study of literary movements and the related arts.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 66891 SEMINAR: LITERATURE OF THE UNITED STATES

This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 66895 SPECIAL TOPICS

Study of selected special topics in literature.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 66991 SEMINAR: GENRE

In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 67001 HISTORY OF LITERARY THEORY

A consideration of the major texts and issues that have shaped literary theory and criticism from the Classical period to 20th-century New Criticism. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 67002 CONTEMPORARY LITERARY THEORY

A survey of the major works of literary theory written after 1950. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 67101 FEMINIST THEORY AND CRITICISM

Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 67102 GENDER THEORY AND CRITICISM

An overview of the current field of literature-related discourses on gender construction, with attention to crucial historical texts which have shaped the contemporary debate. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 67103 PSYCHOANALYTIC THEORY AND CRITICISM

Study of important issues and concepts in psychoanalytic theory and criticism.

Repeatable as content varies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 67104 SOCIAL AND CULTURAL THEORY AND CRITICISM

Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social/cultural theory and criticism.

Repeatable as content varies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 67105 STRUCTURALIST AND POSTSTRUCTURALIST THEORY AND CRITICISM

Study of important issues and concepts in structuralist semiotics, narratology, rhetoric, genre theory and discourse theory.

Repeatable as content varies. Prerequisite: Graduate standing.

3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 67106 HISTORICIST THEORY AND CRITICISM

Study of current approaches to literary history and various historical approaches to the study of literature. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 67591 SEMINAR: THEORY AND CRITICISM

In-depth study of important topics in contemporary theory and criticism. Repeatable as content varies. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

ENG 67601 DOCUMENTS AND TEXTS

Surveys the forms in which written texts are preserved and the ways they are transmitted, revised and mediated. Emphasizes early and modern printing and analytical bibliography. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 67691 SEMINAR: SCHOLARLY EDITING

In-depth treatment of various topics from modern scholarly editing. This course may be repeated as its content varies. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

ENG 68093 VARIABLE TITLE WORKSHOP IN ENGLISH

Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field. May be repeated for maximum credit of 8 hours provided content is different maximum for degree credit is 4 hours. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: English

ENG 68096 INDIVIDUAL INVESTIGATION

Intensive study of selected writer or special topic. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Individual Investigation
Department: English

ENG 68098 RESEARCH

Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: English

ENG 68392 PRACTICUM IN TEACHING COLLEGE ENGLISH

Practical training and experience in teaching beginning composition courses. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: English

ENG 68492 PRACTICUM IN TEACHING INTERNATIONAL STUDENTS

Practical training and experience in teaching English composition to international students. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: English

ENG 69199 THESIS I

Thesis students must register for a total of 6 semester hours, 2 to 6 in a single semester distributed over several semesters if desired. Prerequisite: Special approval and graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: English

ENG 69299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: ENG 69199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: English

ENG 72291 SEMINAR: BRITISH LITERATURE 1800 TO PRESENT

In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

ENG 73001 METHODOLOGY OF TESL

The theory and methodology of teaching English as a second language. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 73031 SCHOOLS OF LINGUISTICS

Discussion of major trends in linguistic analysis and theory. Course centers on examining central questions goals and methods of major Departments of linguistics. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 73032 FUNCTIONAL LINGUISTICS

Examination of function as it occurs in the description of different levels of linguistic systems. Investigation of the theme rheme dichotomy and method of functional analysis. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 73033 SECOND LANGUAGE ACQUISITION

This course surveys the major theoretical approaches to language acquisition concentrating on second language acquisition and the relationship between acquisition learning research and second language teaching approaches. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 73034 LITERATE PRACTICES AND SOCIOLINGUISTICS

Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms and societal multilingualism. Survey of trends in sociolinguistic thought and method. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 73391 SEMINAR: LINGUISTICS

In-depth treatment of various topics from modern linguistics, including phonology, morphology and various generative grammars. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

**ENG 74070 WRITING POETRY**

Advanced workshop in creative writing.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 74071 WRITING FICTION

Advanced workshop in the writing of fiction.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75011 INTRODUCTION TO THE FIELD OF WRITING: THEORY RESEARCH/PRACTICE

Survey introduces writing studies from various perspectives: rhetorical and composition theory, disciplinary and professionalization, several 20th century theoretical influences and Soviet activity theory. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75012 READING AND INTERPRETING RESEARCH ON WRITING

Course focuses on how to read critically and interpret published research by examining the principle means through which "knowledge" is constructed in writing research. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75022 RHETORICAL THEORY: GREEK AND ROMAN

Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75023 RHETORICAL THEORY: 18TH, 19TH AND 20TH CENTURIES

Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75026 LANGUAGE AND THE HUMAN SCIENCES

Course examines how language figures in the frameworks of scholars in various human sciences and the relevance of these approaches for studying language and writing. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75027 ROLE OF COMPOSITION

Study of composition's contributions to writing studies such as writing pedagogy/theory, writing technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 75035 LINGUISTICS FOR RHETORICIANS

Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 75044 RESEARCH DESIGN

Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: English

ENG 75050 PHILOSOPHY OF LANGUAGE

Critical examination of nature and function of language especially in relation to mental function and development. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75051 LITERACY: FUNCTIONS, PRACTICES AND HISTORY

Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ("adaptation," "power," "grace") those studies employ. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75052 WRITING ACTIVITY AS SOCIAL PRACTICE

Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75053 WRITING TECHNOLOGIES

Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology-enhanced literacy learning. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 75057 SEMEIOTICS

An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics literature translation and technology. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 76001 EARLY BRITISH LITERATURE THROUGH THE 18TH CENTURY

A broad survey spanning many centuries. This course will identify key literary and cultural trends as represented in Beowulf to Blake. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 76002 BRITISH AND IRISH LITERATURE FROM THE EARLY ROMANTICS ONWARD

Broad, synchronic study of the literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: English

ENG 76005 OLD ENGLISH

In-depth study of old English grammar and vocabulary, accompanied by guided



reading of select Old English texts with further reading in the history and culture of Anglo-Saxon England. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76042 TEACHING ENGLISH IN SECONDARY SCHOOLS

A course for the experienced secondary English teacher who wants to explore current thinking in the teaching of literature, language and composition. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76051 SHAKESPEARE

Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76052 SURVEY OF CHILDREN'S LITERATURE

Wide reading in children's literature, with particular application to the school curriculum and the field of reading. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76053 CRITICISM OF CHILDREN'S LITERATURE

A critical study of outstanding children's literature from early times to the present. Prerequisite: ENG 31038; and special approval; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76054 BUSINESS AND TECHNICAL WRITING

Development of skills for writing business and technical material in clear, effective and correct English. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76101 LITERATURE OF THE UNITED STATES THROUGH THE CIVIL WAR

Broad, synchronic study of U.S. literature identified with a single period in literary history embracing various genres and relating the literature to other cultural phenomena of the time. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76102 LITERATURE OF THE UNITED STATES AFTER THE CIVIL WAR

Intensive survey of the major movements and cultural/ethnic diversity of American poetry, drama, fiction and literary nonfiction from Realism to Postmodernism. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76103 ETHNIC LITERATURE OF THE UNITED STATES

An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76104 AFRICAN-AMERICAN LITERATURE

An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture, identity or history. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76201 NINETEENTH-CENTURY EUROPEAN LITERATURE

Major European writers of the 19th century: Romanticism, Realism, Naturalism, Symbolism and related movements. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76203 TWENTIETH-CENTURY EUROPEAN LITERATURE

Major European writers of the 20th century: Modernism, Postmodernism and related movements. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76301 WORLD LITERATURE IN ENGLISH

A survey of important works written in English by writers not native to Britain, Ireland or the United States. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76302 POST-COLONIAL LITERATURE IN ENGLISH

An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76401 LITERARY MOVEMENTS

An examination of one particular movement in literary history via its writers, artists, benefactors, thinkers, political demagogues and critics. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76501 NARRATIVE LITERATURE

Close readings of selected novels, short stories, biographies, autobiographies, life writing, journals, and other forms of narrative and verse by British, American and other writers in English, from one or more periods in literary history. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76502 DRAMATIC LITERATURE

Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States, from one or more periods in literary history. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76503 POETRY AND/OR POETIC LITERATURE

Close reading of selected poems and other poetic forms by writers of Britain, Ireland or the United States, from one or more periods in literary history. Prerequisite: Doctoral standing.
3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76504 WOMEN WRITERS

Close readings of important works written in English by women from one or more periods in literary history. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76505 LITERARY MODES

Analysis of works, in various genres from various periods which generate similar responses with emphasis on defining source of response. Content varies. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76592 PRACTICUM IN TUTORING WRITING

Practical training and experience in tutoring composition. Prerequisite: Doctoral standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76595 SPECIAL TOPICS: AUTHORS AND AUTHORSHIP

Research-based study of problems in the theory or practice of authorship. Typical courses include "the creative process", "authors and printers", "Faulkner in Hollywood". Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76706 METHODS IN THE STUDY OF LITERATURE

Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field. Required for Ph.D.s specializing in Division II. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76791 SEMINAR: BRITISH AND IRISH LITERATURE

In-depth treatment of various topics from old English literature, Beowulf, Middle English literature, and Chaucer. Prerequisite: Doctoral standing.
3.000 Credit hours

3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

ENG 76795 SPECIAL TOPICS: COMPARATIVE LITERATURE

Selected topics in comparative literary studies that range from issues in the European novel to the study of literary movements and the related arts. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76891 SEMINAR: LITERATURE OF THE UNITED STATES

This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

ENG 76895 SPECIAL TOPICS

Study of selected special topics in literature. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 76991 SEMINAR: GENRE

In-depth examination of one or more kinds of texts focusing on how forms are defined historically and analytically, with special attention to current approaches. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

ENG 77001 HISTORY OF LITERARY THEORY

A consideration of the major texts and issues that have shaped literary theory and criticism from the classical period to 20th-century new criticism. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 77002 CONTEMPORARY LITERARY THEORY

A survey of the major works of literary theory written after 1950. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: English

ENG 77101 FEMINIST THEORY AND CRITICISM

Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by women. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 77102 GENDER THEORY AND CRITICISM

An overview of the current field of literature-related discourses on gender construction, with attention to crucial historical texts which have shaped the contemporary debate. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 77103 PSYCHOANALYTIC THEORY AND CRITICISM

Study of important issues and concepts in psychoanalytic theory and criticism. Repeatable as content varies. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 77104 SOCIAL AND CULTURAL THEORY AND CRITICISM

Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social cultural theory and criticism. Repeatable as content varies. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 77105 STRUCTURALIST AND POSTSTRUCTURALIST THEORY AND CRITICISM

Study of important issues and concepts in structuralist semiotics, narratology, rhetoric, genre theory and discourse theory. Repeatable as content varies. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English



ENG 77106 HISTORICIST THEORY AND CRITICISM

Study of current approaches to literary history and various historical approaches to the study of literature. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 77591 SEMINAR: THEORY AND CRITICISM

In-depth study of important topics in contemporary theory and criticism. Repeatable as content varies. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

ENG 77601 DOCUMENTS AND TEXTS

Surveys the forms in which written texts are preserved and the ways they are transmitted, revised and mediated. Emphasizes early and modern printing and analytical bibliography. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 77691 SEMINAR: SCHOLARLY EDITING

In-depth treatment of various topics from modern scholarly editing. This course may be repeated as its content varies. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: English

ENG 78093 VARIABLE TITLE WORKSHOP IN ENGLISH

Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field. May be repeated for maximum credit of 8 hours provided content is different maximum for degree credit is 4 hours. Prerequisite: Doctoral standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: English

ENG 78096 INDIVIDUAL INVESTIGATION

Intensive study of selected writer or special topic. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: English

ENG 78392 PRACTICUM IN TEACHING COLLEGE ENGLISH

Practical training and experience in teaching beginning composition courses. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: English

ENG 78492 PRACTICUM IN TEACHING INTERNATIONAL STUDENTS

Practical training and experience in teaching English composition to international students. . Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: English

ENG 85024 DOMAIN RHETORICS AND THE CONSTRUCTION OF KNOWLEDGE

Course examines disciplinarity and knowledge production as historically and socially situated practices and how they are realized through linguistic, rhetorical and material processes and systems. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 85025 THEORIES AND SYSTEMS OF WRITING AND REPRESENTATION

Course examines the history and use of scripts and other means of constructing shared meaning and the attendant contemporary issues concerning writing and representation. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 85033 THE RHETORICAL NATURE AND FUNCTION OF EXTENDED DISCOURSE

Examines rhetorical nature and function of written discourse from social, cultural and psychological perspectives and how discourse production and interpretation interact with relevant contexts. Prerequisite: ENG 63031 or ENG 73031; and 9 doctoral hours of ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 85041 FIELD RESEARCH METHODS IN WRITING

Course focuses on qualitative methods for conducting field research in writing within communities of practice and particular contexts and for analyzing and interpreting data. . Prerequisite: 9 doctoral hours of ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 85042 DISCOURSE ANALYSIS

Course explores various approaches to discourse analysis (e.g., speech act theory pragmatics ethnography of communication conversation analysis) and applies them to linguistic analyses of discourse. Prerequisite: ENG 63031 or ENG 73031; and 9 doctoral hours in ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 85043 HISTORICAL RESEARCH METHODS IN WRITING AND RHETORIC

Course explores methods for the historical study of rhetoric and writing: archival research ethnohistory narrative theory and disciplinary and institutional historiography. Prerequisite: 9 doctoral hours in ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 85054 STUDIES IN LITERACY AND COMMUNITY

Course expands on ENG 6/75052 by examining in more detail how literacy is embedded in the activities and practices of academic, civic and professional communities. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: English

ENG 85055 THE NATURE AND RELATIONSHIP OF ACADEMIC AND NONACADEMIC LITERACY

Course explores the relationship between academic and non-academic literacy, focusing on relationships pertaining to the Department-to-work transitions that



students make. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: English

ENG 85060 DIRECTED READINGS IN WRITING AND RHETORIC

Topics covered will vary according to the needs of students demonstrating deficiency in qualifying exams and/or requiring additional work before undertaking a dissertation project. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: English

ENG 88098 RESEARCH DOCTORAL

Research or individual investigation for doctoral students who have not yet passed candidacy examination. Credits earned may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Special approval of the graduate chairman and doctoral standing.

1.000 TO 15.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Research
Department: English

ENG 89199 DISSERTATION I

Doctoral dissertation, for which registration in two semesters is required first of which will be the semester in which dissertation work is begun and continuing until completion of 30 hours. Prerequisite: Doctoral standing.

15.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Dissertation
Department: English

ENG 89299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: ENG 88199 and doctoral standing.

15.000 Credit hours
15.000 Other hours

Level: Graduate
Schedule Types: Dissertation
Department: English

Entrepreneurship (ENTR)

ENTR 27056 INTRODUCTION TO ENTREPRENEURSHIP

The study of the entrepreneurial process from conception to birth of a new venture. This includes attributes of successful entrepreneurs, opportunity recognition, innovation, venture screening, risk assessment, risk tolerance, identification of resources and business planning to learn

how to turn opportunities into viable business. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

ENTR 27065 ENTREPRENEURIAL EXPERIENCE I

First of two-course sequence designed to immerse entrepreneurship majors into the dynamics of starting and running a micro-business. Focuses on identifying market needs, researching financial viability of business venture to meet that need, and marshalling the resources to launch a business. Prerequisites: BUS 10123; and ENTR 27056; and minimum cumulative GPA of 2.25; and special approval.

3.000 Credit hours
3.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory
Department: Marketing and Entrepreneurship

ENTR 27075 ENTREPRENEURIAL EXPERIENCE II

Continuation of Entrepreneurial Experience I; focuses on growing and running the micro-business throughout the academic year with planned liquidation or shutdown by the end of the academic year. Prerequisites: BUS 10123; and ENTR 27056; and ENTR 27065 with a grade of C (2.0) or better; and minimum cumulative GPA of 2.25; and entrepreneurship (ENTR) major.

3.000 Credit hours
3.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory
Department: Marketing and Entrepreneurship

ENTR 27466 SPEAKER SERIES IN ENTREPRENEURSHIP

Explores entrepreneurship based upon the experiences of a broad range of entrepreneurs. During the semester, at least eight entrepreneurs will share their paths in establishing a successful enterprise, including some of the obstacles and missteps they made along the way. This course is also offered in an online format. Prerequisite: none.

1.000 Credit hours
1.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

ENTR 37045 SALES IN THE ENTREPRENEURIAL VENTURE

Selling and the management of the sales force in the entrepreneurial environment. Special focus is given to enhancing students' selling skills and background in developing an effective sales force for an entrepreneurial organization. Prerequisites: ENTR 27056; and minimum cumulative

GPA of 2.25; and entrepreneurship (ENTR) major or minor.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

ENTR 37065 ENTREPRENEURIAL FINANCE

Introduces students to issues related to capital formation in, and the financial management of, new or young ventures. Students are introduced to sources of capital. The majority of the course focuses on how to identify and substantiate capital requirements, manage cash flows and grow appropriately in a capital-constrained environment. Prerequisites: ACCT 23020; and ECON 22060; and ENTR 27056; and minimum cumulative GPA of 2.25; and entrepreneurship (ENTR) major or minor.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

ENTR 37075 ENTREPRENEURIAL MARKETING

Application of marketing concepts to entrepreneurial situations. Emphasis is given to market segmentation and analysis, product and service positioning and market-oriented firm development. Prerequisites: ENTR 27056; and minimum cumulative GPA of 2.25; and entrepreneurship (ENTR) major or minor.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

ENTR 37192 PRACTICUM IN ENTREPRENEURSHIP

(Repeatable for a total of 3 credit hours) Supervised work in an entrepreneurially oriented organization to obtain experience in operating a small or entrepreneurial firm. Prerequisites: ENTR 27056; and minimum cumulative GPA of 2.25; and entrepreneurship (ENTR) major or minor.

1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours

Level: Undergraduate
Schedule Types: Practicum
Department: Marketing and Entrepreneurship

ENTR 37195 SPECIAL TOPICS IN ENTREPRENEURSHIP I

Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered. Prerequisite: ENTR 37195 and minimum cumulative GPA of 2.25.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture



Department: Marketing and Entrepreneurship

ENTR 47045 ENTREPRENEURIAL LEADERSHIP

Application of business start-up and leadership concepts to entrepreneurial situations. Emphasis is given to mentoring and coaching students in ENTR 27065 or ENTR 27075. Prerequisites: ENTR 27075 with a grade of B (3.0) or better; and entrepreneurship (ENTR) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

ENTR 47065 NEW VENTURE CREATION

The process of formulating, planning and implementing a new venture. Apply the skills learned in the functional areas toward the goal of starting a business. Exposure to detailed descriptions of "how to" embark on a new venture in a logical manner.

Prerequisites: ENTR 37065 and 37075 and entrepreneurship (ENTR) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

Course Attributes: Writing Intensive Course

ENTR 47091 SEMINAR IN ENTREPRENEURSHIP

Current topics in entrepreneurship.

Entrepreneurship majors will not receive credit for this course--open only to entrepreneurship minors. Prerequisites:

ENTR 27056 and MKTG 25010 and minimum cumulative GPA of 2.50. Not open to entrepreneurship (ENTR) majors.

Corequisite: FIN 36053.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

ENTR 47093 VARIABLE TITLE WORKSHOP IN ENTREPRENEURSHIP

(Repeatable for a total of 3 credit hours) Workshop in entrepreneurship. Hours of credit depend on scope of project.

Prerequisite: special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Marketing and Entrepreneurship

ENTR 47195 SPECIAL TOPICS IN ENTREPRENEURSHIP II

Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered.

Prerequisite: ENTR 27056; and minimum cumulative GPA of 2.25.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

Entrepreneurship

ENTR 47292 ENTREPRENEURIAL INTERNSHIP

(Repeatable for a total of 3 credit hours)

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization. Repeatable up to 3 credit hours. Prerequisites: ENTR 27075; and minimum cumulative GPA of 2.25; and entrepreneurship (ENTR) major; and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Marketing and Entrepreneurship

Entrepreneurship

Epidemiology (EPI)

EPI 50196 INDIVIDUAL INVESTIGATION IN EPIDEMIOLOGY

(repeatable for maximum 6 credits)

Individual graduate investigation or research in areas related to epidemiology.

Prerequisite: graduate standing and special approval.

1.000 TO 3.000 Credit hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Public Health

EPI 52017 FUNDAMENTALS OF PUBLIC HEALTH EPIDEMIOLOGY

Introduces principles, methods, and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization, measures of disease frequency, association, and impact, and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis, and prevention, evaluation and public policy development. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

EPI 63014 EPIDEMIOLOGY OF CHRONIC DISEASES

With a life course approach to chronic disease epidemiology, this course focuses on cardiovascular, respiratory, cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective which includes individual behaviors, psychosocial issues, and sociodemographic, biological, and

physiological factors. Time points for prevention and intervention are identified. Prerequisite: EPI 52017 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

EPI 63015 EPIDEMIOLOGY OF INFECTIOUS DISEASES

Surveys the history, principles, methods and practice of infectious disease epidemiology, by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology. Students learn some infectious disease microbiology as well. Prerequisites: EPI 52017 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

EPI 63016 PRINCIPLES OF EPIDEMIOLOGIC RESEARCH

Builds on the fundamental epidemiology course to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency, association and impact, and epidemiologic reasoning and causal inference, and covers methods and techniques for designing, implementing, analyzing, and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs and explores threats to validity, precision, and generalizability of epidemiologic studies. Prerequisites: BST 52019 and EPI 52017; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

EPI 63017 EPIDEMIOLOGICAL ANALYSIS

Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs, outlines a strategy for data analysis and reviews relevant methodological issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application, and correct interpretation of the epidemiologic results. Provides hands on experience on the application of epidemiologic analysis methods and presentation of the results.



Prerequisites: BST 52019; and EPI 52017 and 63016; and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

EPI 72028 METHODS OF EVIDENCE BASED PUBLIC HEALTH

Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

EPI 73024 EMERGING ISSUES IN CHRONIC DISEASE EPIDEMIOLOGY

Covers emerging chronic disease issues on a global level and students understand the life course approach to chronic disease epidemiology. Putative factors and infectious agents are examined as causes of chronic disease and chronic syndromes. Issues related to screening and surveillance will be understood. Students appreciate issues pertaining to study design, modeling, and data analysis in life course epidemiology of chronic disease. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

EPI 73025 EMERGING ISSUES IN INFECTIOUS DISEASE EPIDEMIOLOGY

Investigates global emerging and reemerging infectious diseases. Students evaluate root causes of infectious disease emergence and predict outcomes. Data from primary literature is used to predict alternate outcomes. Specific disease models are used to evaluate and compare prevention, treatment and eradication strategies. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

EPI 73026 DESIGN AND IMPLEMENTATION OF HEALTH SURVEYS

Covers survey design, variable construction, survey administration and data collection methods, variable coding and manipulation, and data analysis. Students will understand sampling methods, and sample size. Large health surveys are discussed. Students gain practical experience through design and implementation of a health survey which can be used to facilitate dissertation research or a publication. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

EPI 73027 BIOLOGICAL BASIS OF PUBLIC HEALTH

Integrates the sciences of biology and molecular biology into the principles and practice of public health. Implicit in this course are learning objectives that establish the ecology of infectious disease, the impact of vaccines in disease prevention, and the role of environmental toxins on human health and disease. Additionally, students propose policy, regulations and legislation designed to protect human health within the realm of personalized medicine. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

EPI 73029 PUBLIC HEALTH SURVEILLANCE SYSTEMS

Introduces students to surveillance systems of both infectious and non-infectious diseases as well as intentional and non-intentional injury. Students are exposed to the theory and practice of surveillance illustrated with examples existing systems from around the world. Culminates in a project where the student creates and evaluates a surveillance system of their own design. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

EPI 73033 ENVIRONMENTAL EPIDEMIOLOGY

Comprehensive course on concepts in environmental epidemiology and statistical methods in environmental epidemiology including causal inference models. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

EPI 73034 LONGITUDINAL DATA ANALYSIS

Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Public Health

EPI 83017 EPIDEMIOLOGICAL ANALYSIS

Provides practical instruction in the analysis and interpretation of data from various epidemiologic study designs including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs, outlines a strategy for data analysis and reviews relevant methodological issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application, and correct interpretation of the epidemiologic results. Provides hands-on experience on the application of epidemiologic analysis methods and presentation of the results. Prerequisites: EPI 63016; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

Educational Psychology (EPSY)

EPSY 29525 EDUCATIONAL PSYCHOLOGY

Examines major theories of human development and learning, motivation, instructional strategies, assessment; similarities and differences in learners. The role of factors in the students' learning and development is considered. Prerequisites: CULT 29535 with minimum C grade; and a major in one of the following: earth science (ESCI), integrated language arts (INLA), integrated mathematics (IMTH), integrated science (ISCI), integrated social studies (INSS), life science (LFSC), life science chemistry (LSCM), physical science (PHSC), school health education (SHED), early childhood education (ECED), middle childhood education (MCED), gifted (GFTD), intervention specialist (INSP), integrated business education (IBED), family and consumer sciences education (FCSE), marketing education (MKT), art education (ARTE), music education (MUED) or early childhood education technology (ECET).

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences
Course Attributes: TAG Education

EPSY 49525 RELATIONAL LEARNING IN EDUCATION

Seminar focuses on national and international relational learning approaches to education. Current literature on relational learning is critiques. Professional identity is supported through engages learning



opportunities in per mentoring experiences and faculty-led research. Course may be repeated for maximum 9 credit hours. Prerequisite: special approval.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

EPSY 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL PSYCHOLOGY

Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours. Prerequisite: Graduate standing and special approval.

1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Graduate

Schedule Types: Workshop
Department: Lifespan Development and Educational Sciences

EPSY 60199 THESIS I

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing and special approval.

2.000 TO 6.000 Credit hours
2.000 TO 6.000 Other hours
Level: Graduate

Schedule Types: Master's Thesis
Department: Lifespan Development and Educational Sciences

EPSY 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: EPSY 60199 and graduate standing.

2.000 Credit hours
2.000 Other hours
Level: Graduate

Schedule Types: Master's Thesis
Department: Lifespan Development and Educational Sciences

EPSY 65520 CHILD AND ADOLESCENT DEVELOPMENT

Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

EPSY 65521 ADULT DEVELOPMENT

Essential dimensions of human development and learning, the causal factors and the research findings which carry implications for educators in various

settings; focusing on early through late adulthood. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

EPSY 65523 LIFE SPAN DEVELOPMENT

Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

EPSY 65524 LEARNING THEORIES

Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

EPSY 65529 EDUCATIONAL MOTIVATION

Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.

Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

EPSY 68901 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION I

Overview of human development, particularly adolescence, and implications for educational policy and programming, generally and specifically for secondary Departments. Prerequisite: Admission to the M.A.T. program and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

EPSY 68902 PSYCHOLOGICAL FOUNDATIONS OF EDUCATION II

Learning theories and principles, individual differences in learning, classroom planning and evaluation; toward an effective instructional psychology of secondary

teachers. Prerequisite: Admission to the M.A.T. program and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

EPSY 68904 LEARNING THEORIES APPLIED IN EDUCATION

Theories of learning and their application to educative process. Special emphasis on application of learning theories to problems of classroom teaching generally and to classroom management. Prerequisite: Graduate standing.

2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

EPSY 69091 SEMINAR IN LEARNING AND DEVELOPMENT

Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice. Prerequisite: Graduate standing.

1.000 TO 5.000 Credit hours
1.000 TO 5.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

EPSY 69092 ADVANCED PRACTICUM AND INTERNSHIP IN LEARNING AND DEVELOPMENT

Supervised program in field setting involving application of theories, principles and methodology in learning and development. Planned with and supervised by graduate faculty member. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours
2.000 TO 6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

EPSY 69095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT

Specific topic course offering in response to emerging student or program needs in learning and development. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

EPSY 69096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT

Students pursue an individual project on a specific topic in learning and development with approval and under direction of



instructor. Prerequisite: Graduate standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

EPSY 69098 RESEARCH IN LEARNING AND DEVELOPMENT

Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor. Prerequisite:

Graduate standing and special approval.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences

EPSY 70093 VARIABLE TOPIC WORKSHOP IN EDUCATIONAL PSYCHOLOGY

Offered on request of school system.

Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours. Prerequisite: doctoral standing and special approval.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

EPSY 75524 LEARNING THEORIES

Theories of learning with special emphasis on application to professional practice. A critical examination of research on human learning processes. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

EPSY 75529 EDUCATIONAL MOTIVATION

Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

EPSY 77450 PSYCHOLOGICAL PRINCIPLES OF EDUCATION

Provides an exploration of educational psychology as the study of learning and teaching, in particular the mental

representations and processes involved in the acquisition, storage, retrieval and use of knowledge in educational settings.

Discusses how research and theory in educational psychology can be applied to real world classroom problems. Students are also required to develop a research project, which utilizes technology to test psychological theories about learning and instruction. Prerequisite: graduate standing. Corequisite: ITEC 77450.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

EPSY 78905 EDUCATIONAL PSYCHOLOGY

Analysis and critique of major learning theories, state-of-the-art development in theory, research and application to educational practice in selected disciplines. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

EPSY 80090 DOCTORAL RESIDENCY SEMINAR

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

EPSY 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Doctoral standing and special approval.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Lifespan Development and Educational Sciences

EPSY 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: Doctoral standing; EPSY 80199.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Lifespan Development and Educational Sciences

EPSY 89091 SEMINAR IN LEARNING AND DEVELOPMENT

Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice. Prerequisite: doctoral standing.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

EPSY 89092 ADVANCED PRACTICUM AND INTERNSHIP IN LEARNING AND DEVELOPMENT

Supervised program in field setting involving application of theories, principles and methodology in learning and development. Planned with and supervised by graduate faculty member. Prerequisite: doctoral standing.

2.000 TO 6.000 Credit hours

2.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

EPSY 89095 SPECIAL TOPICS IN LEARNING AND DEVELOPMENT

Specific topic course offering in response to emerging student or program needs in learning and development. Prerequisite: doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

EPSY 89096 INDIVIDUAL INVESTIGATION IN LEARNING AND DEVELOPMENT

Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor. Prerequisite: doctoral standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

EPSY 89098 RESEARCH IN LEARNING AND DEVELOPMENT

Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor. Prerequisite: doctoral standing and special approval.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences



Evaluation and Measurement (EVAL)

EVAL 50093 VT WKSP EVAL AND MEASUREMENT

Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. May be repeated once for total maximum credit of six hours. Prerequisite: Graduate standing and special approval.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Foundations, Leadership and Administration

EVAL 60199 THESIS I

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: graduate standing and special approval.

2.000 TO 6.000 Credit hours

2.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Foundations, Leadership and Administration

EVAL 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: EDPF 60199 and graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Foundations, Leadership and Administration

EVAL 65510 STATISTICS I FOR EDUCATIONAL SERVICES

Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 65511 RESEARCH IN EDUCATIONAL SERVICES

Introduction to purposes and practice of qualitative and quantitative research related to educational services. Emphasis on elements of doing research and using products of research to support and enhance practice. Authentic examples used as illustration. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 68710 CLASSICAL TEST THEORY

Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments. Prerequisite: Graduate standing; EVAL 65510.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 68711 MODERN TEST THEORY: ITEM RESPONSE THEORY

The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced. Prerequisite: Graduate standing; EVAL 65510 and 68710.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 68712 GENERALIZABILITY THEORY

Students develop the knowledge and skills necessary to use Generalizability Theory (GT) methods as well as to organize, manipulate analyze and interpret data from GT studies. Prerequisite: Graduate standing; EVAL 65510; and EVAL 78716 or 85515.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 68713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH

Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge/skills necessary to conduct multivariate analyses using various statistical packages (SPSS,SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis. Prerequisite: Graduate standing; EVAL 65510; EVAL 78716 or 85515.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 68714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH

This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures. Prerequisite: Graduate standing; EVAL 65510; and EVAL 78716 or 85515.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 68791 SEMINAR IN EVALUATION AND MEASUREMENT

Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice. Prerequisite: graduate standing and special approval.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Foundations, Leadership and Administration

EVAL 68792 ADVANCED PRACTICUM AND INTERNSHIP IN EVALUATION AND MEASUREMENT

Supervised program in field setting involving application of theories, principles and methodology in evaluation and measurement. Planned with and supervised by graduate faculty member. Prerequisite: graduate standing and special approval.

2.000 TO 6.000 Credit hours

2.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

EVAL 68795 SPECIAL TOPICS IN EVALUATION AND MEASUREMENT

Specific topic course offering in response to emerging student or program needs in evaluation and measurement. Prerequisite: graduate standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 68796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT

Specific topic course offering in response to emerging student or program needs in evaluation and measurement. Prerequisite: doctoral standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Foundations, Leadership and Administration

**EVAL 68798 RESEARCH IN EVALUATION AND MEASUREMENT**

Students pursue an individual research project on a specific topic in evaluation and measurement with approval and under direction of instructor. Prerequisite: graduate standing and special approval. 1.000 TO 15.000 Credit hours
1.000 TO 15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Foundations, Leadership and Administration

EVAL 68807 EVALUATION IN EDUCATION

Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation programs. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EVAL 70093 VARIABLE TOPIC WORKSHOP IN EVALUATION AND MEASUREMENT

Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. Prerequisite: Doctoral standing and special approval. 1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Foundations, Leadership and Administration

EVAL 75510 STATISTICS I FOR EDUCATIONAL SERVICES

Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlations and simple regression); hypothesis testing; non-parametric techniques. Ordinarily taken in graduate course sequence. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EVAL 78710 CLASSICAL TEST THEORY

Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments. Prerequisite: doctoral standing; and EVAL 65510. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 78711 MODERN TEST THEORY: ITEM RESPONSE THEORY

The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced. Prerequisite: doctoral standing; EVAL 75510 and 78710. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EVAL 78712 GENERALIZABILITY THEORY

Students develop the knowledge and skills necessary to use Generalizability Theory (GT) methods as well as to organize, manipulate analyze and interpret data from GT studies. Prerequisite: doctoral standing; EVAL 75510; and EVAL 78716 or 85515. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EVAL 78713 MULTIVARIATE ANALYSIS IN EDUCATIONAL RESEARCH

Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge/skills necessary to conduct multivariate analyses using various statistical packages (SPSS,SAS) and to develop knowledge and skills necessary for interpreting results of multivariate analysis. Prerequisite: doctoral standing; EVAL 75510; and EVAL 78716 or 85515. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EVAL 78714 FACTOR ANALYSIS IN EDUCATIONAL RESEARCH

This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures. Prerequisite: doctoral standing; EVAL 65510; and EVAL 78716 or 85515. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EVAL 78716 EDUCATIONAL STATISTICS II

Major types of methods used to investigate relationships between two or more variables are introduced; includes various

analysis of variance designs analysis of covariance and multiple correlations. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EVAL 78728 EDUCATIONAL STATISTICS III

Advanced univariate and introductory multivariate techniques in education research: including analyses of variance and covariance, multi regression and causal modeling, factor analysis, and canonical correlation. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

EVAL 78898 COMPARATIVE RESEARCH DESIGN

The course develops the ability of the student to conceptualize the design elements of educational research and to write results of studies. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Foundations, Leadership and Administration

EVAL 80090 DOCTORAL RESIDENCY SEMINAR

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues research and trends in education in multiple settings. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Foundations, Leadership and Administration

EVAL 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Doctoral standing and special approval. 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Foundations, Leadership and Administration

EVAL 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all



degree requirements are met. Prerequisite: Doctoral standing; EVAL 80199.

15.000 Credit hours

15.000 Lecture hours

Level: Graduate

Schedule Types: Dissertation

Department: Foundations, Leadership and Administration

EVAL 85515 QUANTITATIVE RESEARCH DESIGNS AND APPLICATION IN EDUCATIONAL SERVICES

Quantitative research design and application in educational services research. Spiral presentation of methodological principles within a variety of theoretical frameworks and procedures. Strong focus on computer aided applications to practical problems.

Prerequisite: EVAL 65510 or 75510; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 85516 QUALITATIVE RESEARCH DESIGNS AND APPLICATION IN EDUCATIONAL SERVICES

Introduction to theory and practice of qualitative research methods and field studies in educational services.

Examination of a variety of strategies including observation, document analysis and interviewing. Ordinarily taken early in doctoral course sequence. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 85517 ADVANCED QUANTITATIVE RESEARCH IN EDUCATIONAL SERVICES

Advanced quantitative research design and application in educational services.

Statistical packages of instructional strategies with methodological principles focus, theoretical models and practical application of experimental and multivariate research design. Prerequisite: EVAL 85515 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 85518 ADVANCED QUALITATIVE RESEARCH IN EDUCATIONAL SERVICES

Utilizes qualitative data in educational services. Applications in qualitative methodology (video techniques) and protocol analysis are applied and evaluated. Generate findings; develop applications to theory; reliability and validity

considerations. Prerequisite: EVAL 85516 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 88791 SEM: EVALUATION AND MEASURE

Variable topic seminar for advance study of specialized topics and areas in evaluation and measurement; emphasis on theory and research findings as related to educational practice. Prerequisite: doctoral standing and special approval.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Foundations, Leadership and Administration

EVAL 88792 ADVANCED PRACTICUM AND INTERNSHIP IN EVALUATION AND MEASUREMENT

Supervised program in field setting involving application of theories, principles and methodology in evaluation and measurement. Planned with and supervised by graduate faculty member. Prerequisite: doctoral standing and special approval.

2.000 TO 6.000 Credit hours

2.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

EVAL 88795 ST: EVALUATION AND MEASUREMENT

Specific topic course offering in response to emerging student or program needs in evaluation and measurement. Prerequisite: graduate standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

EVAL 88796 INDIVIDUAL INVESTIGATION IN EVALUATION AND MEASUREMENT

Specific topic course offering in response to emerging student or program needs in evaluation and measurement. Prerequisite: doctoral standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Foundations, Leadership and Administration

EVAL 88798 RESEARCH IN EVALUATION AND MEASUREMENT

Students pursue an individual research project on a specific topic in evaluation and measurement of education with approval and under direction of instructor.

Prerequisite: doctoral standing and special approval.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Foundations, Leadership and Administration

Environmental Health and Safety (EVHS)

EVHS 10001 ENVIRONMENTAL TECHNOLOGY I

Survey course in environmental technology, including health and safety, history, environmental compliance and related issues. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

EVHS 10004 TOXICOLOGY

Examination of the terminology and classification of poisons that affect humans. Includes poison sources, modes of exposure, health effects and control measures. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

EVHS 10010 INDUSTRIAL HYGIENE I

In-depth study of safety methods and procedures with lab for identifying, monitoring, handling, containing and disposing of hazardous substances and hazardous conditions in the workplace. Prerequisite: EVHS 10004.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

EVHS 20001 ENVIRONMENTAL LAW

Emphasize civil, criminal and tort liability issues; procedural and constitutional requirements; and administrative codes, rules and regulations for fire, health, safety and environmental hazards. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

EVHS 20002 ENVIRONMENTAL ISSUES II

Current topics in environmental technology including climate change and alternate energy sources. Prerequisite: EVHS 10001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

**EVHS 20004 ENVIRONMENTAL HEALTH AND SAFETY I**

Examination of hazards assessment including organizational, environmental and disaster planning; health and safety inspection and reporting criteria; and first aid procedures. Prerequisite: EVHS 10001. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EVHS 20006 FIRE PREVENTION AND CONTROL

Conditions and properties conducive for combustible states and hazards; techniques and procedures for fire extinguishing and control; preventative strategies; fire codes and alarm systems. Prerequisite: EVHS 10001. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EVHS 20008 ENVIRONMENTAL SAFETY ADMINISTRATION

Organization and operation of environmental safety unit; relationships with business governmental and community entities involved in environmental safety and hazards control. Prerequisite: EVHS 10010. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EVHS 20020 HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE

Study of hazardous waste operations and emergency response to release of hazardous materials in compliance with EPA and OSHA regulations (29CFR 1910.120). Prerequisite: None. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EVHS 20092 ENVIRONMENTAL TECHNOLOGY INTERNSHIP I

This on- or off campus experience gives students an opportunity to apply learned concepts in the classroom to practical environmental technology situations. Prerequisite: EVHS 20008. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EVHS 21010 INDUSTRIAL HYGIENE II

Emphasis is placed on methodologies of gas, vapor, and aerosol sampling; including instrumentation function and calibration. Measurement and evaluation of physical hazards including noise, heat stress,

lighting and radiation hazards. Includes a major emphasis upon the types of problems and calculations likely to be found in general industry. Laboratory exercises and use of a case study to explore the methods of sampling. Prerequisites: BSCI 10120; and CHEM 10052; and EVHS 10010. 4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EVHS 21092 ENVIRONMENTAL TECHNOLOGY INTERNSHIP II

This on-or off-campus experience gives students an opportunity to apply learned concepts in the classroom to practical environmental technology situations. Prerequisite: EVHS 20092 and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EVHS 22095 SPECIAL TOPICS IN ENVIRONMENTAL HEALTH AND SAFETY

(Repeatable for a total of 6 hours) specialized instruction oriented primarily to application of current technology developed for the field of environmental technology. Course is repeatable as the specific topics will vary. Prerequisite: special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

EVHS 22096 INDIVIDUAL INVESTIGATION IN ENVIRONMENTAL HEALTH AND SAFETY

Independent research of environmental technology topic supervised by an environmental technology faculty member. Prerequisite: special approval. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

Exercise Physiology (EXPH)**EXPH 50612 EXERCISE LEADERSHIP FOR THE OLDER ADULT**

Designed to provide the students with a knowledge base in exercise leadership in the senior population and includes special populations. Students participate in the leading supervision and evaluation of the participant within the exercise program. They also assist in the collection of functional fitness data. Prerequisite: Graduate standing. 3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours

Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXPH 53093 VARIABLE TITLE WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY

Workshop in exercise science or physiology, topics vary. Prerequisites: graduate standing 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Health Sciences

EXPH 55065 EXERCISE TESTING

Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests. Prerequisite: graduate standing. 3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXPH 55070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST

Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist. Prerequisite: Graduate standing and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

EXPH 55080 PHYSIOLOGY OF EXERCISE

Physiological bases of muscular activity with special attention to general effects of exercise on body function. Laboratory included. Prerequisite: Graduate standing. 3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXPH 60610 PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR

Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

EXPH 63050 RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY

The research process and statistical concepts applied to athletic training and



exercise physiology. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

EXPH 63051 QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY

Research design and statistical methods applied to exercise, physiology and athletic training. Prerequisite: EXPH 63050 and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

EXPH 63095 RESEARCH SEMINAR

Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. Prerequisite: Graduate standing.

1.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

EXPH 63096 INDIVIDUAL INVESTIGATION IN EXERCISE PHYSIOLOGY

Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school Director required prior to registration. Repeatable to 6 credit hours. Prerequisites: graduate standing and special approval.

1.000 TO 3.000 Credit hours

Level: Graduate
Schedule Types: Individual Investigation
Department: Health Sciences

EXPH 63098 RESEARCH

Research or individual investigation.

Repeated registration permitted.

Prerequisite: Graduate standing.

1.000 TO 15.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Research
Department: Health Sciences

EXPH 63193 VARIABLE TITLE WORKSHOP IN EXERCISE PHYSIOLOGY

Workshop in exercise physiology; topics vary. Repeated registration permitted.

Maximum 4 hours applied to the degree.

Prerequisites: graduate standing

1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours

Level: Graduate
Schedule Types: Workshop
Department: Health Sciences

EXPH 63195 SPECIAL TOPICS IN EXERCISE PHYSIOLOGY

Selected and varied topics of relevance in exercise physiology. Prerequisites:

graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

EXPH 63199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Master's Thesis
Department: Health Sciences

EXPH 63299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: EXPH 63199 and graduate standing.

2.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Master's Thesis
Department: Health Sciences

EXPH 65080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT

Application of physiological concepts to human performance. Includes role of testing, training strength and endurance, nutritional considerations, environmental influences and, adapted exercise programs. Prerequisite: graduate standing.

3.000 Credit hours
2.000 Lecture hours

2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXPH 65081 ENERGY METABOLISM AND BODY COMPOSITION

Measurement of metabolic response to exercise. Topics include ergometry spirometry energy expenditure body composition and performance correlates of strength power and endurance.

Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

EXPH 65082 CARDIO-RESPIRATORY FUNCTION

Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture
Department: Health Sciences

EXPH 65192 INTERNSHIP IN EXERCISE PHYSIOLOGY

Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies. May be repeated for a total of 8 credit hours. Prerequisites:

graduate standing and special approval.
1.000 TO 6.000 Credit hours
7.000 TO 42.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

EXPH 70610 PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR

Examine physiological changes which accompany advancing age. Special attention is paid to the effect of these changes on sensory motor and cognitive behavior. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

EXPH 73052 ADVANCED RESEARCH DESIGN AND STATISTICS IN EXERCISE PHYSIOLOGY

Advanced topics in research design and statistical analysis with computer applications in exercise physiology.

Prerequisites: EXPH 63051 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

EXPH 73095 RESEARCH SEMINAR

Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. Prerequisite: Doctoral standing.

1.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

EXPH 75004 BIOMECHANICS

Survey of biomechanics, with particular emphasis on skeletal muscle mechanics. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

EXPH 75074 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE

Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture



and laboratory. Prerequisite: doctoral standing.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Health Sciences

EXPH 75075 MUSCLE FUNCTION AND EXERCISE

Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue and training.

Electromyography analysis of muscle function emphasized. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

EXPH 75076 ENVIRONMENTAL STRESS AND EXERCISE

Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory. Prerequisite: doctoral standing.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Health Sciences

EXPH 75080 PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT

Application of physiological concepts to human performance. Includes role of testing, training, strength and endurance, nutritional considerations, environmental influences, and adapted exercise programs. Prerequisite: doctoral standing.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Health Sciences

EXPH 75081 ENERGY METABOLISM AND BODY COMPOSITION

Measurement of metabolic response to exercise. Topics include ergometry, spirometry, energy expenditure, body composition and performance correlates of strength, power and endurance. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

EXPH 75082 CARDIO-RESPIRATORY FUNCTION

Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

EXPH 75083 EXERCISE ENERGY METABOLISM

Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise. Prerequisite: doctoral standing.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Health Sciences

EXPH 75084 CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE

Responses of the cardiovascular and respiratory systems to exercise. Use of noninvasive methods to measure cardio-respiratory function emphasized. Lecture and laboratory. Prerequisite: doctoral standing.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Health Sciences

EXPH 75085 ANTHROPOMETRY AND BODY COMPOSITION IN THE EXERCISE SCIENCES

Theory of selected procedures for the measurement of body composition and physique and their applications in the sports sciences. Laboratory seminar format. Prerequisite: doctoral standing.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Health Sciences

EXPH 75192 INTERNSHIP IN EXERCISE PHYSIOLOGY

Field experience in exercise physiology programs and testing in KSU adult fitness program or cooperating agencies. May be repeated up to 8 credit hours. Prerequisites: doctoral standing and special approval.

1.000 TO 6.000 Credit hours

7.000 TO 42.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Health Sciences

EXPH 83098 RESEARCH

Research for doctoral students.

Prerequisite: special approval and doctoral standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Health Sciences

EXPH 83199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite:

Special approval and doctoral standing.

15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Health Sciences

EXPH 83299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: EXPH 83199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Health Sciences

Experimental Programs (EXPR)

EXPR 10295 SELECTED TOPICS

Experimental courses dealing with topics that would not normally fall under the purview of existing university collegial structures. Initiated by faculty students or members of community. Prerequisite: none.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Honors

EXPR 20295 SELECTED TOPICS

Experimental courses dealing with topics that would not normally fall under the purview of existing university collegial structures. Initiated by faculty students or members of community. Prerequisite: none.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Honors

EXPR 30000 MAY 4, 1970 AND ITS AFTERMATH

Study of the events of May 4, 1970 at Kent State University and their aftermath from various disciplinary perspectives.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Honors

EXPR 30295 SELECTED TOPICS

Experimental courses dealing with topics that would not normally fall under the purview of existing university collegial structures. Initiated by faculty students or members of community. Prerequisite: none.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate



Schedule Types: Lecture
Department: Honors

EXPR 40295 SELECTED TOPICS

Experimental courses dealing with topics that would not normally fall under the purview of existing university collegial structures. Initiated by faculty students or members of community. Prerequisite: none.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Honors

Exercise Science (EXSC)

EXSC 15010 INTRODUCTION TO EXERCISE SCIENCE

Introduction to the discipline of exercise science, including the history of the field, current position stands of the American College of Sports Medicine, the responsibilities and roles of the exercise physiologist and the current trends in exercise science. Prerequisite: none.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

EXSC 25057 HUMAN ANATOMY AND PHYSIOLOGY I

Comprehensive examination of anatomy and physiology related to the organization of the body and basic cell and tissue types. Specific structure and function of the muscular, skeletal, cardiovascular, nervous and respiratory systems are addressed. Prerequisite: none.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXSC 25058 HUMAN ANATOMY AND PHYSIOLOGY II

Comprehensive examination of anatomy and physiology related to the human body under rest and exercise conditions. Specific structure and function of the metabolic, endocrine, lymphatic, digestive, urinary and reproductive systems are addressed. Advanced coverage of neurological, cardiovascular and respiratory systems are also addressed. Prerequisite: ATTR 25057 or EXSC 25057.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXSC 25068 MEASUREMENT AND EVALUATION IN FITNESS AND SPORT

Measurement and statistics applied to physical education and exercise/sport sciences; laboratory experiences in statistics test construction and

administration and evaluation. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

EXSC 35022 EXERCISE LEADERSHIP

Designed to provide the students with the knowledge base in exercise leadership. Topic areas and competencies using a variety of techniques in leading and demonstrating safe and effective methods of applying the fundamental principles of exercise science. The exercise leader will demonstrate all forms of group exercise, flexibility and balance training. Prerequisite: none.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Health Sciences

EXSC 35054 BIOMECHANICS

Anatomical and mechanical bases of human movement. Emphasis is placed on tools and techniques for motion analysis, mechanical concepts, forces and performance analysis. Lecture and laboratory. Prerequisite: ATTR 25057 or EXSC 25057; and ATTR 25058 or EXSC 25058.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXSC 35075 EXERCISE PROGRAMMING

Problems and issues in developing exercise programs in institutional and commercial settings. Prerequisite: ATTR 25057 or EXSC 25057; and ATTR 25058 or EXSC 25058.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

EXSC 40612 EXERCISE LEAD FOR OLDER ADULT

Designed to provide students with a knowledge base in exercise leadership in the older adult population, including special populations. Students participate in the leading, supervision and evaluation of participants within the exercise program. They also assist in the collection of functional fitness data. Prerequisite: none.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXSC 43093 VARIABLE TITLED WORKSHOP IN EXERCISE SCIENCE AND EXERCISE PHYSIOLOGY

Workshop in exercise science, topics vary. Prerequisites: none.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Workshop
Department: Health Sciences

EXSC 43098 RESEARCH IN EXERCISE SCIENCE

Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and school Director required prior to registration. Repeatable to 12 credit hours. Prerequisite: special approval.
1.000 TO 3.000 Credit hours
3.000 TO 9.000 Other hours
Level: Undergraduate
Schedule Types: Research
Department: Health Sciences

EXSC 45065 EXERCISE TESTING

Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests. Prerequisites: ATTR 25057 or EXSC 25057; and ATTR 25058 or EXSC 25058.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXSC 45070 ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST

Designed to provide students with the knowledge base in electrocardiography. Students work on interpreting the 12-lead electrocardiogram with clinical case studies to enhance the knowledge base of the exercise specialist. Prerequisite: ATTR 25057 or EXSC 25057; and ATTR 25058 or EXSC 25058.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

EXSC 45080 PHYSIOLOGY OF EXERCISE

Response of the human to acute and chronic exercise with emphasis on the underlying physiological mechanisms. Prerequisite: ATTR 25057 or EXSC 25057; and ATTR 25058 or EXSC 25058.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

EXSC 45096 INDIVIDUAL INVESTIGATION IN EXERCISE SCIENCE

Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration.



Repeatable for a total of 6 credit hours.

Prerequisite: special approval.

1.000 TO 3.000 Credit hours

3.000 TO 9.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Health Sciences

EXSC 45480 INTERNSHIP SEMINAR IN EXERCISE SCIENCE

Overview of the internship possibilities that are available for the exercise science major. The American College of Sports Medicine (ACSM) certification workshops and the scope of the practice for the exercises specialist is discussed in detail. Prerequisite: special approval.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

EXSC 45481 SENIOR SEMINAR IN EXERCISE SCIENCE

Provides an overview of the research possibilities available for the exercise science major. The Institutional Review Board, research methodology and the risks and benefits of research in the area of exercise science are discussed in detail. Prerequisite: special approval.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

EXSC 45492 INTERNSHIP IN PHYSICAL FITNESS AND CARDIAC REHABILITATION

Supervised experience providing practical experience in administration and operation of programs in physical fitness, health enhancement and/or cardiac rehabilitation. 105 clock hours per credit hour. Repeatable for a total of 8 hours. Prerequisite: special approval.

1.000 TO 8.000 Credit hours

7.000 TO 42.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Health Sciences

EXSC 46095 SPECIAL TOPICS IN EXERCISE SCIENCE

Selected topics in exercise science dependent upon interest. Repeatable.

Prerequisites: none.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

Fashion Design and Merchandising (FDM)

FDM 10010 FASHION FUNDAMENTALS

Introduction to the global fashion industry. Analysis of the business of fashion how it is conceived marketed and sold. Overview of

important resources, companies and personnel who impact the industry.

Prerequisite: fashion design (FD), fashion merchandising (FM) or pre-fashion design and merchandising (PFDM) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and Merchandising

FDM 10020 FASHION VISUALS

The study of color and two-and three-dimensional design, as it applies to the fashion industry. Prerequisite: Fashion design (FD) major.

2.000 Credit hours

4.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Fashion Design and Merchandising

FDM 10030 FASHION FABRICS I

Study of fabrics, focusing on differentiating between fibers, fabric construction and fabric names. The student will study fabric properties and how they relate to fabric end usage. Prerequisite: fashion design or fashion merchandising major.

3.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Fashion Design and Merchandising

FDM 10140 FOUNDATIONS OF FASHION DRAWING

Introduction to fashion drawing.

Concentration on communicating through drawing the fashion figures and technical flats, accurate garment proportion and construction. Prerequisite: Fashion design major.

3.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Fashion Design and Merchandising

FDM 15043 WORKROOM TECHNIQUES I

Introduction to basic construction skills using apparel workroom methods and industrial sewing equipment. Prerequisite: Fashion design or fashion merchandising major. Prerequisite: fashion design (FD) major.

2.000 Credit hours

4.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Fashion Design and Merchandising

FDM 15044 WORKROOM TECHNIQUES II

Continued study of basic construction skills using apparel workroom methods and industrial sewing equipment. Introduction to garment fit and alterations. Prerequisite: minimum grade of C (2.0) in FDM 15043.

2.000 Credit hours

4.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Fashion Design and Merchandising

FDM 20013 HISTORY OF COSTUME

Chronological study and research of historic costume from the origin of clothing through the French revolutionary era, 19th and 20th century designers, and the influence on contemporary fashion. Prerequisite: HIST 11050 or HIST 11051 or ARTH 22006 or ARTH 22007.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and Merchandising

FDM 20020 FASHION MERCHANDISING PRESENTATIONS

Study of fashion information, research sources and visual presentation formats used in the fashion industry. Prerequisite: minimum grade of C (2.0) in FDM 10010 and fashion merchandising major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and Merchandising

FDM 20030 FASHION APPAREL ANALYSIS

Analysis and evaluation of fashion apparel; quality standards of ready-to-wear apparel and factors that influence the aesthetic and functional performance of the end product. Prerequisite: minimum grade of C (2.0) in FDM 10030 and fashion merchandising (FM) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and Merchandising

FDM 20040 FASHION FABRICS II

Continued study of fabrics, focusing on analyzing fabrics in detail. Also included will be the study of laces, trims, high performance fabrics and current events in the textile industry, including legislation.

Prerequisite: minimum grade of C (2.0) in FDM 10030 and fashion design (FD) major.

3.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Fashion Design and Merchandising

FDM 20121 FASHION DRAWING I

Advanced study of design illustration techniques as applied to the fashion figure through the use of live model drawing. Concentration on fabric rendering and drape as illustrated on the fashion figure. Introduction to technical flats used for illustrating garment construction.



Prerequisite: minimum grade of C (2.0) in FDM 10020 and FDM 10140. Corequisite: FDM 20141.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 20122 FASHION DRAWING II

Continued study of fashion illustration techniques through the use of Croquis books and figure layouts. Introduction to different design markets and research and how illustration reflects different markets. Instruction on stylizing according to market. Prerequisite: minimum grade of C (2.0) in FDM 20121. Corequisite: FDM 20142.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 20131 TECHNICAL FASHION DRAWING I

Advanced study of design illustration techniques used to communicate design ideas as applied to technical fashion drawings. Concentration on fabric rendering and drape through the development and use of Croquis to show loose flats. Prerequisite: minimum grade of C (2.0) in FDM 10140 and FDM 10020. Corequisite: FDM 20141.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 20132 TECHNICAL FASHION DRAWING II

Continued study of technical fashion illustration techniques through the use of Adobe Illustrator, line plans and Croquis books for research. Introduction to design markets, research and presentations to buyers. Use of drawing software for technical flats and construction details. Prerequisite: minimum grade of C (2.0) in FDM 20131. Corequisite: FDM 20142.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 20141 FLAT PATTERN/DRAPING I

Development of basic bodice, skirt and sleeve muslins and slopers. Patternmaking principles of dart manipulation and added fullness. Construction techniques for bodice, skirt, sleeve, collar and shirt variations. Introduction to computer patternmaking and specification sheets. Prerequisite: minimum C (2.0) grade in FDM 10030 and FDM 15044.
Pre/corequisite: minimum C (2.0) grade in MATH 11009 or MATH 11010 or MATH

11012. Corequisite: FDM 20121 or FDM 20131.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 20142 FLAT PATTERN/DRAPING II

Development of torso sloper. Drafting and draping contoured bodice and torso patterns. Pattern development, construction and fitting of spring dress from sketch. Sleeve/bodice combinations. Pant sloper development. Prerequisite: minimum grade of C (2.0) in FDM 20141. Corequisite: FDM 20122 or 20132.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 20263 FASHION RETAIL INDUSTRY

Study of retail organizations and structures within the fashion industry. Analysis of supervision organization and operations management of fashion retail institutions. Prerequisite: minimum grade of C (2.0) in FDM 10010; and fashion design (FD) or fashion merchandising (FM) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 25011 FASHION BRANDING

An overview of branding in the fashion industry. Analysis of strategies for creating (brand awareness), maintaining (brand management) and enhancing the strength (brand asset management) of fashion brands. Class members work individual and as part of a group. Prerequisites: FDM 10010 with a minimum grade of C; and fashion merchandising major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 30013 FASHION AND POP CULTURE

An examination of the relationship between different types of design and popular culture in America and Europe in the 20th and 21st centuries. Prerequisite: ARTH 220006 or ARTH 22007 or HIST 11050 or HIST 11051.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 30083 PROFESSIONAL SEMINAR

Professional development strategies for fashion and related careers. Emphasis is on verbal and written communication skills. Prerequisite: minimum grade of C (2.0) in FDM 20020 or 20142; and junior or senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising
Course Attributes: Writing Intensive Course

FDM 30121 FASHION DESIGN I

Study of the fashion industry, seasons and markets. Research and theoretical development of a fashion line/collection. Continued development of drawing, rendering and technical drawing skills. Prerequisite: minimum grade of C (2.0) in FDM 20122. Corequisite: FDM 30141.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 30122 FASHION DESIGN II

Research and theoretical development of fashion lines for specialized markets. Continued development of drawing and rendering skills. Prerequisite: minimum grade of C (2.0) in FDM 30121. Corequisite: FDM 30142.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 30123 CAD FOR FASHION APPLICATIONS

The use of CAD to produce technical drawings, sketches, color stories and textile prints for design and merchandising presentations. Prerequisite: Fashion design and merchandising (FDM) major and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 30124 APPAREL MANUFACTURING PROCESSES

Students learn seam/stitch classifications, costing, sourcing and lab testing quality assurance. Assembly-line and modular manufacturing are discussed. Prerequisite: minimum C (2.0) grade in FDM 20040 and 20132 and 20142.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Fashion Design and Merchandising

**FDM 30131 TECHNICAL FASHION DESIGN I**

Introduction to computerized product data management systems. Creating technical packets with detailed drawings and assembly instructions. Measuring garment prototypes for quality assessment.

Prerequisite: minimum grade of C (2.0) in FDM 20132 and 20142.

3.000 Credit hours

6.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Fashion Design and

Merchandising

FDM 30132 APPAREL CONSTRUCTION FOR SPECIALTY MARKETS

Construction details specific to a market are researched, discussed and duplicated. Only one specialty market covered each class.

Markets vary by class. Prerequisite: minimum grade of C (2.0) in FDM 20142.

1.000 Credit hours

1.500 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Fashion Design and

Merchandising

FDM 30141 FASHION STUDIO I

Advanced patternmaking and construction techniques are used to create complex garments as well as gain experience using fabrics and techniques new to students.

Instruction on appropriate seams and finishes for: wools, knits, sheer and silky fabrics. Introduction to technical flats used for illustrating garment construction.

Prerequisite: minimum grade of C (2.0) in FDM 20142. Corequisite: FDM 30121.

3.000 Credit hours

6.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Fashion Design and

Merchandising

FDM 30142 FASHION STUDIO II

Advanced draping, patternmaking and construction techniques are used to create original garments designed in Fashion Design II. Prerequisite: minimum grade of C (2.0) in FDM 30141. Corequisite: FDM 30122.

3.000 Credit hours

6.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Fashion Design and

Merchandising

FDM 30151 ADVANCED PATTERNMAKING FOR TECHNICAL DESIGN

Flat pattern assignments for advanced, complex garments. Suits, outerwear, cut/sew knits will all be covered. Students will make patterns by traditional methods as well as by computer. Prerequisite: minimum grade of C (2.0) in FDM 20142.

2.000 Credit hours

4.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Fashion Design and

Merchandising

FDM 30152 APPAREL PROTOTYPE PRODUCTION AND ANALYSIS

Production of sample garments for a variety of apparel markets focusing on analysis of fit. Menswear, children's wear, missy, petites and plus size markets are covered.

Woven and knit classifications are produced. Prerequisite: minimum grade of C (2.0) in FDM 20142.

3.000 Credit hours

6.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Fashion Design and

Merchandising

FDM 30153 MACHINE KNITTING

Learn basic machine knitting techniques and create a sample book. Learn how knits are constructed in the industry. Create two garments based on research and using a theme as inspiration. Prerequisite: minimum grade of C (2.0) in FDM 10030 and fashion design (FD) major.

2.000 Credit hours

4.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Fashion Design and

Merchandising

FDM 30213 FASHION MARKETING

Examination of fashion producers/retailers' roles in marketing communications.

Analysis of consumer motivation to develop sales strategies in relationship to marketing strategies. Prerequisite: minimum C (2.) grade in FDM 20020; and MKTG 25010.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and

Merchandising

FDM 30260 PRODUCT DEVELOPMENT IN THE FASHION INDUSTRY

Researching, planning, developing and presenting a fashion product line for a identified target market with regard to prices, styling and timing. Prerequisite: minimum grade of C (2.0) in FDM 20030 and fashion merchandising (FM) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and

Merchandising

FDM 30262 FASHION MERCHANDISE PLANNING AND BUYING

Study of market sources, fashion buying techniques, assortment planning and allocation and quantitative calculations needed in the fashion industry.

Prerequisite: minimum C (2.0) grade in FDM 20263; and MATH 11009 or MATH 11010 or MATH 11012.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and

Merchandising

FDM 35010 21ST CENTURY FASHION DESIGNERS

Focus on this century's emerging fashion designers through field research, instructor-led site tours in New York City, and guest speakers. Students assemble a portfolio of fashion designers studied to include their biographies, clippings of their work and design inspirations. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and

Merchandising

FDM 35013 FASHION ACCESSORIES

The merchandising, promotion and sales of accessories. Materials production and resources are examined by category.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and

Merchandising

FDM 35063 VISUAL MERCHANDISING AND DISPLAY

Theory and practice of merchandise presentation for the purpose of promotion and sales. Prerequisite: fashion merchandising (FM) major.

3.000 Credit hours

1.000 Lecture hours

4.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Fashion Design and

Merchandising

FDM 35070 THE LUXURY MARKET

Purpose is to learn, understand, and perceive the luxury market and its parameters. Students gain an understanding of the marketing power of luxury brands and the organization of a luxury products company. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Fashion Design and

Merchandising

FDM 35260 MERCHANDISING FOR HOME FURNISHINGS

Introduction to the various retail classifications of home furnishing merchandise to include furniture, floor coverings, window treatments, household linens, table tops, house ware's and decorative accessories. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate



Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 35270 COMPUTER APPLICATIONS IN RETAILING

The application and use of the microcomputer to solve problems in assortment planning, merchandise management, trading area and site analysis, store planning, planogramming and media planning. Prerequisite: minimum grade of C (2.0) in FDM 20263; and MATH 11009 or MATH 11010 or MATH 11012.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 35280 FASHION ENTREPRENEURSHIP

In-depth study of entrepreneurship concepts as applied to manufacturers and retailers of apparel including product development, accounting and control merchandising and buying operation and management advertising and promotion. Prerequisite: junior or senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 35900 FLORENCE FASHION STUDY ORIENTATION

Overview of Florence fashion program, the city of Florence, living and traveling in Europe as a study abroad student. Includes assistance for obtaining required documents. Students must enroll in Florence fashion program to receive credit. Prerequisite: 2.5 cumulative GPA. Corequisite: FDM 20030 or FDM 20142.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 35901 ITALIAN FASHION AND CULTURE

Evolution of the fashion industry in post World War II Italy. Study of the creators, design and production processes creating one of the most successful unions of commercial product and cultural expression world-wide. Prerequisite: minimum grade of C (2.0) in FDM 35900.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 35902 EUROPEAN FASHION MARKETING

Building on the information acquired in the European Fashion Marketing Seminar

lectures and visits, student complete a series of assignments designed to simulate the type of work that a merchandising professional may be asked to complete. Corequisite: FDM 35903.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 35903 EUROPEAN FASHION MARKETING SEMINAR

Taken concurrently with European Fashion Marketing and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines. Only taught in European settings. Corequisite: FDM 35902.

3.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Fashion Design and Merchandising

FDM 35904 EUROPEAN FASHION DESIGN

Taken concurrently with European Fashion Design Seminar and is designed to introduce couture techniques and enhance techniques of those who possess a basic to advance knowledge of sewing. Only taught in European settings. Corequisite: FDM 35905.

3.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Fashion Design and Merchandising

FDM 35905 EUROPEAN FASHION DESIGN SEMINAR

Taken concurrently with European Fashion Design and uses a European city as an extended classroom, combining various field trips to directional shopping districts, fashion houses and fashion magazines. Corequisite: FDM 35904.

3.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Fashion Design and Merchandising

FDM 40121 FASHION PORTFOLIO I

Develop a professional design portfolio which will emphasize in-depth individual investigation of specific apparel markets, target customers and seasons, displaying various illustrative techniques. Croquis books, technical packets and line plans will be used. Prerequisite: minimum grade of C (2.0) in FDM 30122. Corequisite: FDM 40141.
3.000 Credit hours
6.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 40122 FASHION PORTFOLIO II

Continued development of design portfolio which emphasizes students strengths in design and presentation. Continued progress in Croquis books and development of seasonal line plans. Prerequisite: minimum grade of C (2.0) in FDM 40121. Corequisite: FDM 40142.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 40131 TECHNICAL FASHION DESIGN II

Continued study of the fashion industry markets and garment construction and finishes appropriate to market through technical packets. Continued study of industry software used for technical design, tracking samples and logging information. Development of a 'class collection' simulating the fashion industry through the production, communication and creation of all design information inclusive of costing, samples of all technical packets. Prerequisite: minimum grade of C (2.0) in FDM 30131. Corequisite: FDM 40151.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 40132 TECHNICAL FASHION DESIGN III

Develop a portfolio which emphasizes investigation of specific apparel markets through finishes and fabrications. Portfolios will reflect concentrated classifications and will include technical packs and computerized flat drawings. Prerequisite: minimum grade of C (2.0) in FDM 40131. Corequisite: FDM 40152.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 40141 FASHION STUDIO III

Development of pattern work, specification sheets and muslins for original line. Faculty and external professional critiques. Prerequisite: FDM 30142. Corequisite: FDM 40121.
3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

**FDM 40142 FASHION STUDIO IV**

Construction and completion of garments for original line. Faculty and external professional critiques. Prerequisite: minimum grade of C (2.0) in FDM 40121 and 40141. Corequisite: FDM 40122. 3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 40151 TECHNICAL DESIGN STUDIO I

Class collaborates on one collection by dividing into student teams based on classification (woven bottoms, knit tops, etc.). Patterns and muslins are created. Faculty and external professional critiques. Prerequisite: minimum grade of C (2.0) in FDM 30131 and FDM 30132 and FDM 30124 and FDM 30151 and FDM 30152. Corequisite: FDM 40131. 3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 40152 TECHNICAL DESIGN STUDIO II

Continued work on collaborative collections. Student teams work on different classifications. The prototypes are produced in final fabrics. Faculty and external professional critiques. Prerequisite: minimum grade of C (2.0) in FDM 40151. Corequisite: FDM 40132. 2.000 Credit hours
4.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 40291 SEMINAR IN FASHION MERCHANDISING

Suggested for final semester of the FDM major. Study of the business of fashion. This course builds and expands on all merchandising related coursework with the goal of integrating content and applying it to real life scenarios through critical thinking and analysis. Prerequisite: minimum C (2.0) grade in FDM 30213 and FDM 30260 and FDM 30262. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Fashion Design and Merchandising

FDM 45011 FASHION FORECASTING

Identifying trends to develop fashion forecasts. Interrelationships of forecasting promotion public relations and the media. Prerequisite: minimum grade of C (2.0) in FDM 30213. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 45012 TEXTILES AND APPAREL IN THE GLOBAL ECONOMY

Global perspective on the production and marketing of textiles and apparel; historical geographic and economic factors that influence the world trade in soft goods. Prerequisite: minimum grade of C (2.0) in FDM 30262 and 35270. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 45035 HISTORIC TEXTILES

Identification and analysis of textile fabrics as the reflection of culture. Pre- or corequisite: HIST 11050 or HIST 11051 or ARTH 22006 or ARTH 22007. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising
Course Attributes: Writing Intensive Course

FDM 45092 INTERNSHIP IN FASHION DESIGN AND MERCHANDISING

Supervised practical experience in the fashion industry. Eligibility requirements available from the school of fashion design and merchandising field studies coordinator. Prerequisite: minimum grade of C (2.0) in FDM 30083 and junior standing and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 45093 VARIABLE TITLE WORKSHOP-FASHION DESIGN AND MARKETING

(Repeatable for a total of 6 hours) grading is S/U. Special fee actual cost basis. Prerequisite: special approval. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Fashion Design and Merchandising

FDM 45095 SPECIAL TOPICS

Variable content relevant to the field of fashion. Prerequisite: Permission. 1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 45096 INDIVIDUAL INVESTIGATION

Individual investigation of topic above the level available through coursework.

Requires submission of and approval of project proposal prior to registration. Prerequisite: Permission. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Fashion Design and Merchandising

FDM 45145 TAILORING

Traditional and contemporary techniques for constructing tailored garments. Prerequisite: minimum grade of C (2.0) in FDM 30122 and 30142. 3.000 Credit hours
6.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Fashion Design and Merchandising

FDM 45192 INTERNSHIP IN FASHION MERCHANDISING

Supervised practical experience in the fashion industry. Eligibility requirements available from the school of Fashion Design and Merchandising field studies coordinator. Prerequisites: Minimum grade of C (2.0) in FDM 30083 and 30262; fashion merchandising (FM) major; and special approval for internship site. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Fashion Design and Merchandising

FDM 45212 FASHION SHOW PRODUCTIONS

Analyses of fashion show formats are considered for promotion purposes. Production planning, organization and physical requirements are studied. Class produces a fashion show. Prerequisite: None. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Fashion Design and Merchandising

FDM 45292 INTERNSHIP IN FASHION DESIGN

Supervised practical experience in the fashion industry. Eligibility requirements available from the school of Fashion Design and Merchandising field studies coordinator. Prerequisite: Minimum grade of C (2.0) in FDM 30083 and 30121; fashion design (FD) major; and special approval for internship site. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Fashion Design and Merchandising



FDM 45392 FIELD EXPERIENCE: FASHION STUDY TOUR

Visit to domestic or foreign fashion markets, including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

Prerequisites: special approval and fashion design (FD) or fashion merchandising (FM) major.

1.000 TO 3.000 Credit hours

12.000 TO 36.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Fashion Design and Merchandising

FDM 45492 FIELD EXPERIENCE STUDY TOUR FOR NYC STUDIO STUDENTS

Visit to the New York fashion market including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry.

Prerequisite: Special approval and fashion design or fashion merchandising major.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Fashion Design and Merchandising

FDM 45592 FIELD EXPERIENCE EUROPEAN FASHION STUDY TOUR FOR FLORENCE STUDENTS

Visit to European fashion markets including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry. Prerequisite:

Special approval and fashion design or fashion merchandising major.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Fashion Design and Merchandising

FDM 60010 THEORIES IN FASHION

Focuses on the meaning, context and intent of fashion design to contemporary society.

Prerequisite: admission to the MBA program and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Fashion Design and Merchandising

FDM 60020 FASHION DESIGN MANAGEMENT

In-depth study of the relationship between creativity and efficiency in fashion design.

Provides insight into how project managers can nurture innovation in an organizational context. Prerequisites: admission to MBA program and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Fashion Design and Merchandising

FDM 60030 RESEARCH METHODS IN FASHION DESIGN AND MERCHANDISING

Critical evaluation of research, theoretical and scholarly review articles related to apparel and textiles. Learn and practice skills needed to understand and critically evaluate research, theory and scholarly works. Examine in-depth scholarly literature on one topic within apparel and textiles.

Write and present a scholarly review of literature. Prerequisites: Admission to MBA program and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Fashion Design and Merchandising

FDM 60098 RESEARCH PROJECT IN FASHION DESIGN AND MERCHANDISING

Research experience with an individual faculty member designed to strengthen student's ability to synthesize different phases and methods of research. Students work closely with faculty to determine the specific nature, scope and design of the research experience. Prerequisites: FDM 60010 and 60020 and 60030; admission to MBA program; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Fashion Design and Merchandising

Finance (FIN)

FIN 26074 LEGAL ENVIRONMENT OF BUSINESS

(Equivalent to BMRT 21000) Coverage of the nature, structure and significance of the legal and regulatory areas which confront business, with special emphasis on business ethics environmental and international issues. Prerequisite:

sophomore standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

Course Attributes: TAG Business

FIN 36040 ME AND MY MONEY

Provides non-business majors with a practical overview of the essential aspects of personal finance necessary to function in today's complex economy. No credit toward B.B.A. degree. Prerequisite: none

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 36053 BUSINESS FINANCE

Analysis of financial decisions in business enterprise and interface of firm with capital markets. Prerequisite: cumulative 2.50

GPA; and ACCT 23020 or ACTT 11000; and ECON 22060 or HONR 21197; and ECON 22061 or HONR 21297.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 36054 INTERMEDIATE BUSINESS FINANCE

Treatment of uncertainty in business financial analysis. Overview of investment markets, financial institutions and international financial environment.

Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major; and FIN 36053.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 36058 THE FINANCIAL SYSTEM

Analysis of financial markets and institutions emphasizing current issues, regulatory aspects and management concerns. Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major; and FIN 36053.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 36059 INVESTMENTS

Discussion of factors determining value of investment securities with attention to economic, regulatory and global influences. Either this course or FIN 36063 but not both can count as an elective in a College of Business Administration program.

Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major; and FIN 36053.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 36061 REAL ESTATE PRINCIPLES

Principles and practices of real estate, real estate laws, contractual instruments, valuation, financing and markets in commercial and residential real estate.

Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 36063 INDIVIDUAL INVESTMENT ANALYSIS AND STRATEGIES

Examination of investment analysis and strategies with emphasis on individuals.

Open only to non-finance major. Cannot be counted toward finance major. Either this course or FIN 36059 but not both, can count as an elective in a College of Business Administration program.



Prerequisite: cumulative 2.50 GPA; and FIN 36053; not open to finance (FIN) majors.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 36072 LAW OF COMMERCIAL TRANSACTIONS

Introduction to real and personal property, commercial paper, agency law, business organizations, bankruptcy, secured transactions and other related areas of business law. Primarily for accounting majors. Prerequisite: cumulative 2.50 GPA; and FIN 26074 or BMRT 21000; not open to finance (FIN) majors.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 36081 PRINCIPLES OF INSURANCE

Examination of insurance industry, its regulatory environment and insurance contracts. Life and health insurance as well as property and liability insurance are covered. Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and ECON 22060 and ECON 22061.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 36085 FINANCIAL MODELING

Provides students explicit experience with financial modeling. Business problems are systematically designed and solved using computerized spreadsheets. Prerequisites: FIN 36054; and MIS 24053; and 2.50 cumulative GPA.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 46054 FINANCIAL RISK MANAGEMENT

Understanding techniques and financial tools used in managing financial risk. Analysis of contracts (options, forwards, futures) undertaken in the context of financial regulation and ethical practices within the financial marketplace.

Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and FIN 36053.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 46055 OPTIONS AND FUTURES MARKETS

Comprehensive analysis of options and futures markets and their role in the financial system. Valuation methods, advanced hedging, arbitration techniques and the regulatory environment.

Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and FIN 36059.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 46057 FINANCIAL ANALYSIS

Introduction to use of computer software and methods in financial planning. Statement analysis and selected applications; i.e. working capital management, capital budgeting, planning models and option pricing. Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and FIN 36053.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 46059 FINANCIAL POLICY

Capstone course in finance with emphasis on financial policies and strategic financial decision making with respect to both short-term and long-term financial management problems. Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and FIN 36054 and MIS 24056.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

Course Attributes: Writing Intensive Course

FIN 46064 INTERNATIONAL BUSINESS FINANCE

Management of the finance function of an international company, including foreign exchange exposure management, foreign investment, short term and long term capital management, and international accounting and taxation. Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and FIN 36053 and FIN 36054 and senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 46067 PORTFOLIO ANALYSIS

Principles, methods, techniques of portfolio analysis. Emphasis on determination of portfolio risks and returns. Political, ethical, global forces affecting asset returns and risks are evaluated. Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and FIN 36059.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 46068 FINANCIAL MANAGEMENT OF COMMERCIAL BANKS

Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure.

Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and FIN 36058 and FIN 36054.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 46096 INDIVIDUAL INVESTIGATION IN FINANCE

Opportunity for research in problem areas of interest in field of finance. Agreement of faculty member in the department must be secured prior to registering for course.

Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Finance

FIN 46192 INTERNSHIP IN FINANCE

An internship for finance majors interested in obtaining career-relevant experience.

Students and employers must satisfy criteria established by the department.

Students are responsible for securing employment. Prerequisite: cumulative 2.50 GPA; and Finance (FIN) major and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 46295 FINANCE SPECIAL TOPICS

Deal with special topics in finance. New subjects not covered in other existing courses. Prerequisites: Finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36053 and senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Finance

FIN 66050 THE LEGAL AND ETHICAL ENVIRONMENT OF MANAGEMENT DECISIONS

This course examines the impact that various laws and regulations as well as ethical considerations in society exert on the business managerial decision-making process. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Finance

FIN 66061 FINANCIAL MANAGEMENT I

Study of financial decision-making processes within a firm. Emphasis on applications and strategic planning in investment, financing, dividend and working capital decisions. Prerequisite: ACCT 63037 and 63038; ECON 62021; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate



Schedule Types: Lecture
Department: Finance

FIN 66062 FINANCIAL MANAGEMENT II

Advanced treatment of financial topics with focus on current issues of strategic importance. Case and project intensive. Prerequisite: FIN 66061 or 76061; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66063 FINANCIAL MARKETS AND INSTITUTIONS

Study of money and capital markets and institutions and their managerial and environmental problems, including regulation and supervision by government. Prerequisite: FIN 66061 or 76061; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66064 INTERNATIONAL FINANCIAL MANAGEMENT

Problems facing financial management of multinational firms including environmental problems, organizing for optimal results, sources and uses of funds, accounting, tax and control problems. Prerequisite: FIN 66061 or 76061; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66065 COMMERCIAL BANK MANAGEMENT

Application of financial concepts to management of commercial banks. Emphasizes decision making and problem solving techniques. Prerequisite: FIN 66063 or 76063; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66066 ADVANCED SECURITY AND INVESTMENT THEORY

Integrated investment analysis with portfolio analysis and management. Coverage of the leading portfolio and capital asset models. Prerequisite: FIN 66061 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66067 RISK MANAGEMENT AND DERIVATIVES

Theory and practice of financial valuation, computation and analysis. Valuation of derivative financial instruments, diffusion

models, systematic risk analysis, and optimal multi-currency, multi-asset attribution analysis for global portfolio management. Prerequisite: FIN 66061; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66069 REAL ESTATE

A study of real estate valuation, financing, investment and brokerage. Emphasis is in both theoretical and pragmatic terms with regard to land use and development. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66075 LEGAL ASPECTS OF FINANCIAL ENGINEERING

Coverage of the legal, regulatory and compliance aspects of derivative use and the current legal standing of derivatives and regulatory issues associated with derivatives. Issues of risk measurement and risk transparency of derivatives markets and disclosure issues are covered. Prerequisite: FIN 66080 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66080 DERIVATIVES I

An introduction to the theory and practice of pricing and hedging of derivative securities. Coverage of equity and index, foreign currency, commodity and interest-rate derivatives. Basic mathematical concepts and the institutional structure of derivative markets discussed. This course uses advanced trading and analytical software and hardware on the financial engineering trading floor. Prerequisite: Graduate standing. Corequisite: BAD 66061.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66081 DERIVATIVES II

Coverage of exotic options, discrete and continuous pricing models, and pricing techniques. Develops the economic foundations of the theory of derivatives and a mathematical toolkit to analyze standard instruments and 'dissect' exotic ones. This course uses advanced trading and analytical software and hardware on the financial engineering trading floor. Prerequisite: FIN 66080 and BAD 66061 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Finance

FIN 66084 FINANCIAL ENGINEERING

Coverage of VAR, hedging techniques, synthetic assets and volatility trading are covered. Risk management and risk control models are covered. Surveys, standard approaches to measuring and modeling financial risk from the risk manager perspective. This course uses advanced trading and analytical software and hardware on the financial engineering trading floor. Prerequisite: FIN 66080 and BAD 66061 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 66085 FIXED INCOME MARKETS

Provides a quantitative approach to fixed income instrument use. Covers the mathematics of bond pricing, term structure analysis and pricing of credit risk. Trees and Monte Carlo methods of valuation are presented. This course uses advanced trading and analytical software and hardware on the financial engineering trading floor. Prerequisite: FIN 66080 and BAD 66061 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 76061 FINANCIAL MANAGEMENT I

Study of financial decision-making processes within a firm. Emphasis on applications and strategic planning in investment, financing, dividend and working capital decisions. Prerequisite: ACCT 63037 and 63038; ECON 62021; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 76062 FINANCIAL MANAGEMENT II

Advanced treatment of financial topics with focus on current issues of strategic importance. Case and project intensive. Prerequisite: FIN 66061 or 76061; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 76063 FINANCIAL MARKETS AND INSTITUTIONS

Advanced treatment of financial topics with focus on current issues of strategic importance. Case and project intensive. Prerequisite: FIN 66061 or 76061; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Finance

FIN 76064 INTERNATIONAL FINANCIAL MANAGEMENT

Problems facing financial management of multinational firms including environmental problems, organizing for optimal results, sources and uses of funds, accounting, tax and control problems. Prerequisite: FIN 66061 or 76061; and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 76066 ADVANCED SECURITY AND INVESTMENT THEORY

Integrated investment analysis with portfolio analysis and management. Coverage of the leading portfolio and capital asset models. Prerequisite: FIN 66061 or 76061; and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 76081 DERIVATIVES II

Coverage of exotic options, discrete and continuous pricing models, and pricing techniques. Develops the economic foundations of the theory of derivatives and a mathematical toolkit to analyze standard instruments and 'dissect' exotic ones. This course uses advanced trading and analytical software and hardware on the financial engineering trading floor. Prerequisite: FIN 66080 and BAD 66061 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 76084 FINANCIAL ENGINEERING

Coverage of VaR, hedging techniques, synthetic assets and volatility trading are covered. Risk management and risk control models are covered. Surveys, standard approaches to measuring and modeling financial risk from the risk manager perspective. This course uses advanced trading and analytical software and hardware on the financial engineering trading floor. Prerequisite: FIN 66080 and BAD 66061 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 76085 FIXED INCOME MARKETS

Provides a quantitative approach to fixed income instrument use. Covers the mathematics of bond pricing, term structure analysis and pricing of credit risk. Trees and Monte Carlo methods of valuation are presented. This course uses advanced trading and analytical software and hardware on the financial engineering

trading floor. Prerequisite: FIN 66080 and BAD 66061 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 86061 THEORIES OF FINANCIAL DECISION-MAKING

Object is to discuss how individuals and firms allocate resources through time. Basic emphasis on optimal investment decisions under conditions of certainty and uncertainty. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 86062 THEORY OF CORPORATE FINANCE

A study of the theory and empirical evidence from a global perspective regarding corporate financial management. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 86064 INTERNATIONAL FINANCIAL MARKETS, INSTITUTIONS AND MANAGEMENT

This course presents an intense examination of the major global issues and underlying theories concerning the financial management of international business firms and the financial markets and institutions which facilitate such operations. Reading assignments will consist of the leading journal articles in this area. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 86066 INVESTMENT THEORY

A study of the theory and empirical evidence from a global perspective regarding investment analysis, valuation and portfolio selection. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Finance

FIN 86097 SEMINAR IN FINANCE

An examination of selected current developments in the literature of finance. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: Finance

FIN 86098 RESEARCH IN FINANCE

Research area of current interest. This structured course is designed to enable the doctoral candidate to complete an acceptable dissertation proposal in the field of finance. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Finance

French (FR)

FR 13201 ELEMENTARY FRENCH I

An introduction to the French language in the context of Francophone cultures.

Prerequisite: None.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

FR 13202 ELEMENTARY FRENCH II

A continuation of the introduction to the French language in the context of Francophone cultures. Prerequisite: FR 13201.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

FR 23201 INTERMEDIATE FRENCH I

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: FR 13202.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

FR 23202 INTERMEDIATE FRENCH II

Continuation of FR 23201. Prerequisite: FR 23201.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

FR 23207 BUSINESS FRENCH I

Terminology, organizations and modes of communication prevalent in modern French business world. Presentation of materials followed by practical exercises organized in situational units. Prerequisite: FR 23202 and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

**FR 23208 BUSINESS FRENCH II**

Terminology, organizations and modes of communication prevalent in modern French business world. Presentation of materials followed by practical exercises organized institutional units. Prerequisite: FR 23207.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 23209 FIELD STUDY

For residence and/or field research in a French-speaking community. Prior to registration for this course students must obtain departmental approval. Repeatable for a total of 6 hours. Prerequisite: Special approval.

1.000 TO 6.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33095 SELECTED TOPICS IN FRENCH

Topic to be announced in the schedule of classes. Repeatable for a total of 9 hours. Prerequisite: FR 33211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33211 FRENCH CONVERSATION

A course designed to enhance students' oral proficiency through instruction in facilitating conversation and the discussion of culture-based texts. Prerequisite: FR 23202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33212 FRENCH COMPOSITION

A course designed to develop writing and reading skills, and in particular to prepare students to read and write about French literature. Prerequisite: FR 23202; and special approval. Corequisite: FR 33214

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33213 INTENSIVE FRENCH GRAMMAR

Comprehensive, in-depth review of French grammar. Students should already have a grounding in spoken and written French. Prerequisite: FR 33211 and FR 33212.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33214 FRENCH COMPOSITION EXTENDED

Designed to develop writing and reading skills, and in particular to prepare students to read and write about French literature.

Prerequisite: FR 23202 and special

approval. Corequisite: FR 33212

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33215 FRENCH PHONETICS AND DICTION

Study of sounds of French language and their relation to spelling; application of international phonetic alphabet to French.

Study augmented by recordings.

Prerequisite: FR 33211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33231 TRANSLATION PRACTICE: FRENCH

Translation practice with French texts using principles and techniques learned in the lecture class. To be taken concurrently with MCLS 30230. Corequisite MCLS 30230.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES/FRENCH

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings. Prerequisite: FR 33211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33301 FRENCH PLAY PRODUCTION

Intensive analysis of one or two plays with equal emphasis on text and problems involved in staging them; public performance in French of one or two plays. Prerequisite: FR 23201.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 33335 INTRODUCTION TO FRENCH THEATRE

Evolution of French dramatic literature from the middle ages to the present. Readings of representative works with lectures analyses. In French. Prerequisite: FR 33212.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Course Attributes: Writing Intensive Course

FR 33336 INTRODUCTION TO FRENCH POETRY

Evolution of French poetry from the middle ages to the present. Readings of representative works with lectures analyses. In French. Prerequisite: FR 33212.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Course Attributes: Writing Intensive Course

FR 33337 INTRODUCTION TO THE FRENCH NOVEL

Evolution of French novel from 17th century to present. Readings of representative major works lectures analyses. In French. Prerequisite: FR 33212.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Course Attributes: Writing Intensive Course

FR 33421 FRENCH CIVILIZATION

A survey of French history and culture from its beginnings to World War II. Taught in French. Prerequisite: FR 33212.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

FR 43091 FRENCH SEMINAR

Topic to be announced. Prerequisite: One course from FR 33335 or FR 33336 or FR 33337.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Modern and Classical

Language Studies

FR 43093 VARIABLE TITLE WORKSHOP IN FRENCH

Workshops individually designed to provide instruction and training in specific areas of French studies. S u graded. Prerequisite: Departmental permission.

1.000 TO 6.000 Credit hours

1.000 TO 6.000 Other hours



Level: Undergraduate
Schedule Types: Workshop
Department: Modern and Classical
Language Studies

FR 43096 INDIVIDUAL INVESTIGATION

Allows the advanced, serious student to carry out research study project on French literature, language or culture. Prior approval of supervising faculty members department required. Repeatable for a total of 6 hours. Prerequisite: Special approval. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Modern and Classical
Language Studies

FR 43213 FRENCH COMPOSITION-ADVANCED

French stylistics developed by analyses of literary extracts and practice in written expression. Prerequisite: FR 33335 or FR 33336 or FR 33337 or FR 33421. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 43216 CONTEMPORARY FRENCH CULTURE

A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world. Prerequisite: FR 33421 and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 43230 ADVANCED TRANSLATION PRACTICE:FRENCH

Theory and practice course that discusses translation theory and emphasizes French-to-English translation of selected texts in business, technology, medicine and law. Prerequisite: FR 33231. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Writing Intensive Course

FR 43240 BUSINESS AND SPECIAL TEXTS: FRENCH

Survey of the typical text types of business in the French culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in French. Prerequisite: FR 33212. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Modern and Classical
Language Studies

FR 43366 STUDIES IN NINETEENTH-CENTURY FRENCH LITERATURE

Study of selected topics in nineteenth-century French literature. Prerequisite: 6 semester hours from the 33330-level. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 43368 THE TWENTIETH-CENTURY FRENCH NOVEL

Studies of selected 20th century French novels, with detailed study of the novel of one or several major writers or movements. Prerequisite: 6 semester hours from the 33330-level. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 43369 TWENTIETH-CENTURY FRENCH POETRY

A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Albiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century. Prerequisite: 6 semester hours from the FR 33330-level. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 43370 THE TWENTIETH CENTURY FRENCH THEATRE

Studies in French drama since 1900. Prerequisite: 6 semester hours from the 33330-level. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 43380 FRANCOPHONE LITERATURE

A study of writers, movements or works representative of French speaking national cultures outside of France. May be repeated for credit as course content changes. Prerequisite: 6 semester hours from the FR 33330-level. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 53091 FRENCH SEMINAR

Topic to be announced. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Modern and Classical
Language Studies

FR 53213 FRENCH COMPOSITION-ADVANCED

French stylistics developed through analyses of literary extracts and practice in written expression. Prerequisite: Graduate standing and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 53216 CONTEMPORARY FRENCH CULTURE

A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world. Prerequisite: Graduate standing and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 53366 STUDIES IN 19TH-CENTURY FRENCH LITERATURE

Study of selected topics in nineteenth-century French literature. Prerequisite: 6 hours from 33330- level and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 53368 20TH-CENTURY FRENCH NOVEL

Study of selected 20th-century French novels, with emphasis on one or several major writers or movements. Prerequisite: 6 hours from 33330-level and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 53369 20TH-CENTURY FRENCH POETRY

A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Albiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century. Prerequisite: Graduate standing. 3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 53370 20TH-CENTURY FRENCH THEATRE

Studies in French drama since 1900.
Prerequisite: 6 hours from 33330-level and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 53380 FRANCOPHONE LITERATURE

A study of writers, movements or works representative of French speaking national cultures outside of France. May be repeated for credit as course content changes. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 63001 GRADUATE RESEARCH AND WRITING IN FRENCH

Individual instruction and assistance with problems encountered in academic research and writing in French. Required of all graduate students in their first fall semester of graduate work. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 63010 THE PRACTICE OF FRENCH TRANSLATION

Students apply linguistic and communication science concepts to case studies of language mediation. Prerequisite: Graduate standing. Corequisite: TRST 60010.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 63093 VARIABLE TITLE WORKSHOP IN FRENCH

Workshops individually designed to provide instruction and training in specific areas of French studies. Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Modern and Classical
Language Studies

FR 63098 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Modern and Classical
Language Studies

FR 63199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Modern and Classical
Language Studies

FR 63201 READING FRENCH FOR GRADUATE STUDENTS

Introduction to the fundamentals of French grammar for graduate students. Practice in reading and translation. Prerequisite: Graduate standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 63202 READING FRENCH FOR GRADUATE STUDENTS

Practice in the reading and translation of French texts in the student's specialized field and in more general areas. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 63240 LITERARY AND CULTURAL TRANSLATION

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into French will also be emphasized. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 63250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 63251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

FR 63299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: FR 63199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Modern and Classical
Language Studies

FR 63979 CASE STUDY IN TRANSLATION

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

Graduate College (GCOL)

GCOL 61000 INTRODUCTION TO LIBERAL STUDIES

Introduction to history, philosophy and curricular structure of graduate liberal studies. Prerequisite: Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Research and Graduate
Studies

GCOL 61093 WORKSHOP IN COLLEGE TEACHING

Orientation to college teaching for new teaching assistants. Prerequisite: Graduate standing.
1.000 OR 2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop



Department: Research and Graduate Studies

GCOL 61094 COLLEGE TEACHING

Training, supervision and evaluation in college-level instruction. Maximum of 2 hours applicable toward degree. Repeated registration permitted. Prerequisite:

Graduate standing.

1.000 OR 2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Research and Graduate Studies

GCOL 61098 LIBERAL STUDIES ESSAY

The preparation of an essay of approximately 50 pages on a topic related to the student's program of study for the Master of Liberal Studies degree.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Research and Graduate Studies

GCOL 61191 INTERDISCIPLINARY SEMINAR IN GERONTOLOGY

Course is designed to assist students in developing the knowledge and skills needed to understand major issues in gerontological theory, research and practice from a multidisciplinary perspective.

Prerequisite: Graduate standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Research and Graduate Studies

GCOL 71093 WORKSHOP IN COLLEGE TEACHING

Orientation to college teaching for new teaching assistants. Prerequisite: Doctoral standing.

1.000 OR 2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Research and Graduate Studies

71094 COLLEGE TEACHING

Training, supervision and evaluation in college-level instruction. Maximum of 2 hours applicable toward degree. Repeated registration permitted. Prerequisite:

Doctoral standing.

1.000 OR 2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Research and Graduate Studies

GCOL 71191 INTERDISCIPLINARY SEMINAR IN GERONTOLOGY

This seminar assists students in developing the knowledge and skills needed to discuss

major issues in gerontological theory, research and practice from an interdisciplinary perspective. Prerequisite:

Doctoral standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Research and Graduate Studies

Geography (GEOG)**GEOG 10160 INTRODUCTION TO GEOGRAPHY**

Emphasizes processes that generate diverse global human and environmental patterns. Interaction of geographical elements as expressed in spatial organization of cities, land use and cultural and political regions. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Kent Core-Social Sciences, Transfer Module-Social Sciences

GEOG 16001 SOIL AND HORTICULTURAL MANAGEMENT

To provide students with an understanding of the relationship of soil, nutrients and fertilizers, and to understand how to properly plant trees, shrubs and flowers.

Offered at Salem campus only.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 17063 WORLD GEOGRAPHY

Examination and comparison of geographic conditions in different regions of the world.

Stresses inter-relationships between people and resources within and between regions and countries. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Diversity Course-Global, Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

GEOG 17064 GEOGRAPHY OF THE UNITED STATES AND CANADA

Analysis of the spatial patterns of significant human and physical characteristics and interpretation of the major regions within the two nations. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, Transfer Module-Social Sciences

GEOG 20195 SPECIAL TOPICS IN GEOGRAPHY

Explores emerging topics in geography not covered in other existing courses. Variable content course. Repeated registration permitted. Prerequisite: None.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 20977 SURVEY OF GEOGRAPHY

Introduces geography as a professional discipline; presents faculty and their research interests. Prerequisite: Geography (GEOG) major.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 21062 PHYSICAL GEOGRAPHY

Introduction to the study of the spatial characteristics of the Earth's physical environment, including how humans interact with it. Topics include weather and climate, vegetation, soils, ecosystems, landforms and land-formation processes, human impacts on Earth systems and human societal adaptations to the physical environment. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Kent Core-Basic Sciences, TAG Social/Behavior Sciences, Transfer Module-Natural Sciences

GEOG 21063 PHYSICAL GEOGRAPHY LABORATORY

Practical experience examining physical geographic processes, including the study and manipulation of map projections, Earth-sun relationships and experiments relating to the atmosphere, biosphere, lithosphere and hydrosphere. Corequisite: GEOG 21062.

1.000 Credit hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Geography

Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

GEOG 22040 INTRODUCTION TO GLOBAL TOURISM

Introduction to travel and tourism around the world, including tourism technologies, cultural and natural environments as attractions benefits of travel, travel ethics, and sustainable development. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture



Department: Geography

GEOG 22061 HUMAN GEOGRAPHY

Introduction to the field of human geography. Topics include population migration, folk and popular culture, language, religion, ethnicity, political geography, development, agriculture, industry, services, urban patterns and resource problems. Emphasis is placed on historic and current spatial patterns and reasons for their change. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Diversity Course-Global, Kent Core-Social Sciences, Transfer Module-Social Sciences

GEOG 29160 MAPPING OUR WORLD

Introduction to maps and their uses, stressing their importance as a vehicle for understanding and communicating information about our world and its spatial characteristics. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: TAG Social/Behavior Sciences

GEOG 31062 FUNDAMENTALS OF METEOROLOGY

Analysis of weather elements emphasizing energy exchanges and controls, and atmospheric circulation. Methods of weather prediction and man's modification of weather are highlighted. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 31064 PRINCIPLES OF CLIMATOLOGY

A study of the physical processes causing the distribution of world climates. Focus on local and urban climates, climatic change and societal impacts of climate.

Prerequisite: GEOG 31062.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 31070 POPULATION AND THE ENVIRONMENT

This course examines the interrelations of population growth, resource depletion and the environment from a geographic perspective including the principal themes of space and place. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 31080 GEOGRAPHY OF WINE

Examines the physical environment of viticulture including climate, soil and farm practices; the cultural tradition of wine making, consumption and trade; and regional production styles. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 32080 POLITICS AND PLACE

Spatial aspects of political behavior as manifested in boundary changes, the sizes of states, interstate relations and spatial organization. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Diversity Course-Global

GEOG 34070 ECONOMIC GEOGRAPHY

Study of worldwide variations in economic activities, emphasizing both the reasons for and the significance of these variations. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 35065 GEOGRAPHY OF TRANSPORTATION AND SPATIAL INTERACTION

Spatial interaction. Study of flows, networks and integrated systems at different spatial scales. Transport and economic development. Models and methods of analysis. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 36065 CITIES AND URBANIZATION

Course examines what is a city, how it has evolved over time under changing economic conditions, what is its internal structure and how this has been influenced by transportation developments. Special attention is paid to the causes and consequences of social diversity within the city and how cities differ throughout the world. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Diversity Course-Global

GEOG 37010 GEOGRAPHY OF OHIO

Study of Ohio as a distinctive region, its environment and the varied characteristics of its population, its historical geographic

development and contemporary patterns and problems. Prerequisite: junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 37040 GEOGRAPHY OF AFRICA

This course deals with the complex geographical and cultural elements in Africa. It demonstrates how the interaction of these elements has affected Africa's linkages to other continents especially North America. Furthermore it, discusses how this diversity has affected Africa's economic development and political evolution. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Diversity Course-Global

GEOG 37050 GEOGRAPHY OF RUSSIA AND THE COMMONWEALTH OF INDEPENDENT STATES

Study of the physical, economical, political and cultural geography of Russia, Ukraine, Central Asia and other components of the former Soviet Union. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Diversity Course-Global

GEOG 37066 GEOGRAPHY OF EUROPE

Examination of the cultural, economic, political and physical geography of Western and Eastern Europe (excluding the former USSR). Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Diversity Course-Global

GEOG 37070 GEOGRAPHY OF EAST AND SOUTHEAST ASIA

Analysis of the physical and cultural geography of East and Southeast Asia, extending from Japan and China to Burma and Indonesia. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Diversity Course-Global

GEOG 37079 GEOGRAPHY OF SOUTH ASIA

Physical and cultural geography of South Asian region including India, Pakistan, Bangladesh, Nepal, Bhutan and the Maldives Islands. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture



Department: Geography
Course Attributes: Diversity Course-Global

GEOG 37084 GEOGRAPHY OF SOUTH AMERICA

Overview of region and survey of each country emphasizes systematic similarities and differences in physical environment, culture, economic development, population, land use, politics and history. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography
Course Attributes: Diversity Course-Global

GEOG 37085 GEOGRAPHY OF CENTRAL AMERICA AND MEXICO

Geographic analysis and interpretation of major regions of Central America, Mexico and the Caribbean. Evaluation of physical environments and development problems. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography
Course Attributes: Diversity Course-Global

GEOG 39002 STATISTICAL METHODS IN GEOGRAPHY

Explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association and regression analysis. Geographic applications are emphasized. Prerequisite: MATH 11009 or MATH 11010 or MATH 10041.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography

GEOG 39161 INTRODUCTION TO CARTOGRAPHY

Map making from compilation through reproduction; development of skills in drafting, generalization, symbolization, design familiarization with relief representation, statistical maps and map projections. Prerequisite: GEOG 29160 and MATH 10041. Corequisite: GEOG 39162.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography

GEOG 39162 INTRODUCTION TO CARTOGRAPHY LABORATORY

Practical experience in mapmaking. Actual map compilation design, drafting and reproduction is stressed. Corequisite: GEOG 39161.

1.000 Credit hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Geography

GEOG 40093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY

S/u graded. Prerequisite: Permission.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Geography

GEOG 40191 SEMINAR IN GEOGRAPHY

Advanced study of the historical development of geography and of contemporary issues in the field. Emphasis on methods of geographic investigation and presentation of results. Repeatable for a total of 6 credit hours. Prerequisite: Junior standing and geography (GEOG) major.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Geography
Course Attributes: Writing Intensive Course

GEOG 40192 PRACTICUM IN GEOGRAPHY

Practical experience in using or teaching geographic techniques and/or problem-solving. Faculty supervised. Repeated registration permitted. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Geography

GEOG 40195 SPECIAL TOPICS IN GEOGRAPHY

Prerequisite: special approval.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography

GEOG 40292 FIELD EXPERIENCE IN GEOGRAPHY

Examination of geographic landscapes in the field. Prerequisite: special approval.
1.000 TO 6.000 Credit hours
12.000 TO 72.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Geography
Course Attributes: Variable Title

GEOG 40392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS

Examination of newly emerging geographic topics and techniques. Prerequisite: special approval.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Geography

GEOG 40996 INDIVIDUAL INVESTIGATION IN GEOGRAPHY

Individual undergraduate investigation or research on specific geographical problems. Prerequisite: Permission.
1.000 TO 3.000 Credit hours

3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Geography

GEOG 41050 POLAR AND ALPINE ENVIRONMENTS

The geographic features of the Earth's cold treeless regions are examined including climate, soils, glaciers, permafrost, plant and animal life and human activities. Prerequisite: GEOG 21062.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography

GEOG 41052 GLACIERS AND GLACIATION

Examination of how glacial ice masses change the shape of the Earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards. Prerequisite: GEOG 21062 or GEOL 11040.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography

GEOG 41062 ADVANCED PHYSICAL GEOGRAPHY

Advanced systematic analysis of the elements of physical geography. Specific analytical methodologies and their application to physical geography are also discussed. Prerequisite: GEOG 21062.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography

GEOG 41066 CLIMATE CHANGE AND ITS IMPACT

Examination of the evidence and causes of climate change and how these data are assessed. Past, present and future impacts of climate change and variability are discussed along with policy implications. Prerequisite: GEOG 31062 and GEOG 31064.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography

GEOG 41073 CONSERVATION OF NATURAL RESOURCES

Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geography

**GEOG 41074 RESOURCE GEOGRAPHY**

Culture-technology and distance in relation to resource adequacy and management concepts for societal decisions about common property and situations with external economies. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 41082 GEOGRAPHY OF SOILS

An edaphological approach to soils including morphology, formation, classification, geographical distribution and utilization. Field work required. Prerequisite: GEOG 21062 or GEOL 11040.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 42040 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL

Investigation of travel and tourism development using an interdisciplinary social science approach. Prerequisite: RPTM 36060.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 42052 MEDICAL GEOGRAPHY

Geographic patterns of morbidity and mortality in the past and the present; diffusion of diseases and medicine; health in Third World emphasized. Prerequisite: GEOG 22061.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 42064 HISTORICAL GEOGRAPHY OF THE UNITED STATES AND CANADA

Regional origins and growth, evolution of spatial organization, changing evaluation of environments, and past geographies in United States and Canada from pre-Colonial times on. Prerequisite: GEOG 17064.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 44010 GEOGRAPHY OF THE GLOBAL ECONOMY

Geographic analysis of the increasing interconnectedness of economic activity. The social, technological and political changes associated with globalization are also discussed. Prerequisite: GEOG 34070 or ECON 22061.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

Course Attributes: Writing Intensive Course

GEOG 44070 SPATIAL ANALYSIS AND LOCATION THEORY

Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems behavioral models in economic geography spatial allocation problems. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 45085 URBAN TRANSPORTATION

Spatial analysis of urban transportation, travel behavior, modes. Trip generation and distribution models, transportation planning, urban transportation problems.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 46035 MARKETING GEOGRAPHY

Study of spatial arrangements and functions of market centers and the internal spatial patterns of retail stores, location analysis and site selection. Practicum required. Prerequisite: GEOG 36065.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 46065 ADVANCED URBAN GEOGRAPHY

Investigation of advanced concepts pertaining to the spatial structure of urban areas. Prerequisite: GEOG 36065.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 46070 URBAN AND REGIONAL PLANNING

Analysis of geographical aspects of planning for cities and regions. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 46092 INTERNSHIP IN GEOGRAPHY AND PLANNING

Pre-professional work experience in local, regional and environmental planning agencies and in business designed to utilize and develop academic skills.

Prerequisite: Controlled registration admission competitive based on student's

skills and interests and on number of positions available.

3.000 TO 6.000 Credit hours

6.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Geography

GEOG 49070 GEOGRAPHIC INFORMATION SCIENCE

Introduction to theories and methods for geographic data processing, including data capture and input data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real world applications. Prerequisite: At least 6 hours of geography.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 49076 SPATIAL PROGRAMMING

Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena. Prerequisite: GEOG 49070.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 49080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE

Advanced theories and techniques for handling geographic information systems, including 2D and 3D processing of geographic information, detection and analysis of geographic patterns, 2D and 3D mapping of geographic information, modeling of geographic processes, and an overview of GIS programming tools. Prerequisite: GEOG 49070.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geography

GEOG 49098 RESEARCH IN GEOGRAPHIC INFORMATION TECHNOLOGY

Individual research on a topic in geographic information technology. Prerequisite: Special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Research

Department: Geography

GEOG 49162 ADVANCED CARTOGRAPHY

Study of the design and production of complex maps. Symbolization, composition and color utilization. Prerequisite: GEOG 39161. Corequisite: GEOG 49163.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate



Schedule Types: Lecture
Department: Geography

GEOG 49163 ADVANCED CARTOGRAPHY LABORATORY

Practical experience in the techniques of production and reproduction of maps. Corequisite: GEOG 49162. 1.000 Credit hours 3.000 Lab hours Level: Undergraduate Schedule Types: Laboratory Department: Geography

GEOG 49165 GEOMAPPING

Information theory, data collection, automated mapping systems. Representation of surfaces lines and points, geographic data structures and applications. Mapping by line printer, interactive terminals. Prerequisite: GEOG 39002 or GEOG 39161. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Geography

GEOG 49198 RESEARCH IN CARTOGRAPHY AND GIS

(repeated registration permitted) individual research on a topic in cartography or GIS under the direction of any faculty member. Prerequisite: Permission. 1.000 TO 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Research Department: Geography

GEOG 49210 EARTH IMAGERY

The student following this course will be introduced to the full variety of methods of imaging the Earth for environmental analysis, including satellite methods. Prerequisite: GEOG 29160. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Geography

GEOG 49211 EARTH IMAGERY LABORATORY

This course will support the lecture course, Earth Imagery by giving the student exposure to the methods of manual measurement and interpretation of images. Corequisite: GEOG 49210. 1.000 Credit hours 3.000 Lab hours Level: Undergraduate Schedule Types: Laboratory Department: Geography

GEOG 49230 REMOTE SENSING

Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized. Prerequisite: none. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture

Department: Geography

GEOG 49480 FIELD STUDY IN GEOGRAPHY

Present methods of planning and structuring field studies, the techniques of mapping and data gathering in the analysis of local field problems. Prerequisite: Geography major. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Field Experience Department: Geography

GEOG 49482 FIELD STUDY OF SELECTED RURAL AND URBAN AREAS

Field studies of rural and urban regional problems in the united states and Canada. One month or more in field written report on findings. Limited to 15 students. Students pay for own board and laboratory fee to university. Special fee on actual cost basis. Prerequisite: Permission. 5.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Field Experience Department: Geography

GEOG 49890 APPLIED GEOGRAPHY

Detailed investigation of application of geographic techniques and knowledge toward problem solving in the "real world." Prerequisite: 10 undergraduate geography hours. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Geography

GEOG 50093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY

Variable title workshop in geography. Prerequisite: Graduate standing. 1.000 TO 5.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Workshop Department: Geography

GEOG 50195 SPECIAL TOPICS IN GEOGRAPHY

Topics vary according to research interest of person teaching the course. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Geography

GEOG 50292 FIELD EXPERIENCE IN GEOGRAPHY

Examination of geographic landscapes in the field. Prerequisite: Special approval and graduate standing. 1.000 TO 6.000 Credit hours 12.000 TO 72.000 Other hours Level: Graduate Schedule Types: Field Experience Department: Geography Course Attributes: Variable Title

GEOG 50392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS

Examination of newly emerging geographic topics and techniques. Prerequisite: Special approval and graduate standing. 1.000 TO 6.000 Credit hours 6.000 Other hours Level: Graduate Schedule Types: Practicum Department: Geography

GEOG 51050 POLAR AND ALPINE ENVIRONMENTS

The geographic features of the earth's cold treeless regions are examined including climate, soils, glaciers, permafrost, plant and animal life and human activities. Prerequisite: GEOG 21062 and graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Geography

GEOG 51052 GLACIERS AND GLACIATION

Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards. Prerequisite: Graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Geography

GEOG 51062 ADVANCED PHYSICAL GEOGRAPHY

Advanced systematic analysis of the elements of physical geography. Specific methodologies and their application to physical geography are also discussed. Prerequisite: Graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Geography

GEOG 51066 CLIMATE CHANGE AND ITS IMPACTS

Examination of the evidence and causes of climate change and how these data are assessed. Past, present and future impacts of climate change and variability are discussed along with policy implications. Prerequisite: Graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Geography

GEOG 51073 CONSERVATION OF OUR NATURAL RESOURCES

Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization. Prerequisite: Graduate standing. 3.000 Credit hours 3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 51074 RESOURCE GEOGRAPHY

Cultural attitudes, conceptual approaches and techniques in resource geography analysis of selected resource issues at various areal scales. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 51082 GEOGRAPHY OF SOILS

Study and analysis of different soil types in their relation to geographic factors.

Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 52052 MEDICAL GEOGRAPHY

Examines the geographic patterns of morbidity and mortality, environmental correlates of major diseases and disease diffusion. Locational and accessibility issues of health care are discussed.

Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 52064 HISTORICAL GEOGRAPHY OF THE UNITED STATES AND CANADA

Study of regional origins, growth evolution of spatial organization changing evaluation of environments and selective geographies in united states and Canada from pre-colonial times to present. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 54010 GEOGRAPHY OF THE GLOBAL ECONOMY

Geographic analysis of the increasing interconnectedness of economic activity. The social, technological and political changes associated with globalization are also discussed. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 54070 SPATIAL ANALYSIS AND LOCATION THEORY

Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems behavioral models in

economic geography and spatial allocation problems. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 55085 URBAN TRANSPORTATION

Spatial interaction patterns in urban environments. Travel behavior, commodity flows, traffic patterns and urban transportation systems. Urban transportation problems. Theoretical developments and techniques of analysis in urban transportation. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 56035 MARKETING GEOGRAPHY

Study of spatial arrangement and functions of market centers and the internal spatial patterns of retail-wholesale facilities in urban areas. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 56065 ADVANCED URBAN GEOGRAPHY

Investigation of advanced concepts pertaining to the spatial structure of urban areas. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 56070 URBAN AND REGIONAL PLANNING

Analysis of the geographical aspects of planning for cities and regions. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 56092 INTERNSHIP IN GEOGRAPHY AND PLANNING

Pre professional work experience in local, regional and environmental planning agencies and private business designed to utilize and develop academic skills. Prerequisite: Special approval and graduate standing.

3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Geography

GEOG 59070 GEOGRAPHIC INFORMATION SCIENCE

Introduction to theories and methods for geographic data processing, including data capture and input, data storage and management, and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real world applications. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 59076 SPATIAL PROGRAMMING

Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena. Prerequisite: GEOG 59070 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 59080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE

Advanced theories and techniques for handling geographic information systems, including 2D and 3D processing of geographic information, detection and analysis of geographic patterns, 2D and 3D mapping of geographic information, modeling of geographic processes and an overview of GIS programming tools. Prerequisite: GEOG 4/59070 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 59162 ADVANCED CARTOGRAPHY

Study of the design and production of complex maps, symbolization, composition and color utilization. Prerequisite: GEOG 39161 and graduate standing. Corequisite: GEOG 5/79163.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 59163 ADVANCED CARTOGRAPHY LABORATORY

Practical experience in the techniques of the production and reproduction of maps. Prerequisite: Graduate standing.

1.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Geography

GEOG 59165 GEOMAPPING

Information theory, data collection, automated mapping systems,



representation of surfaces, lines and points, geographic data structures and applications. Mapping by line printer, plotters and interactive terminals.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geography

GEOG 59210 EARTH IMAGERY

The student in this course will be introduced to the full variety of methods of imaging the earth for environmental analysis, including satellite methods. Prerequisite: GEOG 29160 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geography

GEOG 59211 EARTH IMAGERY LABORATORY

This course will support the lecture course, Earth Imagery by giving the student exposure to the methods of manual measurement and interpretation of images. Corequisite: GEOG 5/79210 and graduate standing.

1.000 Credit hours

3.000 Lab hours

Level: Graduate

Schedule Types: Laboratory

Department: Geography

GEOG 59230 REMOTE SENSING

Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geography

GEOG 59480 FIELD STUDY IN GEOGRAPHY

Presents methods of planning and structuring field studies, the techniques of mapping and data gathering in the analysis of local field problems. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Field Experience

Department: Geography

GEOG 59482 FIELD STUDY OF SELECTED RURAL AND URBAN AREAS

Field studies of rural and urban regional problems in the United States or Canada. One month or more in field; written report on findings. Limited to 15 students. Students pay for own board and laboratory fee to university. Prerequisite: Special approval of instructor and graduate standing.

5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Field Experience

Department: Geography

GEOG 59890 APPLIED GEOGRAPHY

Detailed investigation of application of geographic techniques and knowledge toward problem solving in the "real world." Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geography

GEOG 60191 SEMINAR IN TOPICAL GEOGRAPHY

Seminar in one of the major topical fields in geography offered by title in given semester. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Geography

GEOG 60197 INTRADEPARTMENTAL COLLOQUIUM

One hour credit per semester. Prerequisite: Graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: Geography

GEOG 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Geography

GEOG 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: GEOG 60199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Geography

GEOG 60800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT

Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Geography

GEOG 60881 CONTEMPORARY ISSUES IN GEOGRAPHY

Review of some of the important philosophical, methodological and contextual research areas in geography. Designed to expose students to potential research areas. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geography

GEOG 60996 RESEARCH IN GEOGRAPHY

Individual research problems in geography. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Geography

GEOG 60998 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves. Repeated registration permitted. Prerequisite: Graduate standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Geography

GEOG 62062 BEHAVIORAL GEOGRAPHY

Focuses on spatial perception, cognition and behavior. How we collect and process spatial information, behavior in space, locate space and interact in space. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geography

GEOG 64040 SEMINAR IN ECONOMIC GEOGRAPHY

Survey of recent literature in economic geography, including industrial and technological change services and the world economy. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Geography

GEOG 67091 SEMINAR IN REGIONAL GEOGRAPHY

Seminar on one of the major regions of world offered by title in given semester. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Geography



GEOG 69004 ANALYSIS OF SPATIAL DATA

Application of distance measures and taxonomic techniques, analysis of association between different distributions, explanation and prediction of spatial and temporal trends--regression methods (linear and nonlinear), trend surface techniques, and spatial auto correlation to the geographic analysis and spatial distributions. Prerequisite: GEOG 39002 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 69009 SPATIAL ALGORITHMS

This course explores the methodologies of how to conduct spatial analyses in a computer environment. Half the course will be in a structured teaching context and half will be project work. Prerequisite: GEOG 4/5/79006 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 69010 URBAN INFORMATION AND SYSTEMS METHODOLOGY

Urban information processing procedures for acquiring and using information; research design which emphasizes systems planning prior to research; quantitative methods and stress analysis of statistical results. Prerequisite: Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 69694 COLLEGE TEACHING OF GEOGRAPHY

Staff training and experience in college teaching. Repeated registration permitted up to 10 hours for doctoral students. Maximum of 3 hours applicable toward master's degree requirements (with department's approval). Prerequisite: Graduate standing.
2.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 69701 RESEARCH AND PRESENTATION OF GEOGRAPHIC DATA

Critical discussion of techniques of geographic research and preparation and presentation of research papers. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Geography

GEOG 70093 VARIABLE TITLE WORKSHOP IN GEOGRAPHY

Variable title workshop in geography. Prerequisite: Doctoral standing.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Geography

GEOG 70191 SEMINAR IN TOPICAL GEOGRAPHY

Seminar in one of the major topical fields in geography offered by title in given semester. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Geography

GEOG 70195 SPECIAL TOPICS IN GEOGRAPHY

Special topics in geography. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 70292 FIELD EXPERIENCE IN GEOGRAPHY

Examination of geographic landscapes in the field. Prerequisite: Doctoral standing and special approval.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Geography

GEOG 70392 PRACTICUM IN EMERGING GEOGRAPHIC TRENDS

Examination of newly emerging geographic topics and techniques. Prerequisite: Special approval and doctoral standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Geography

GEOG 70800 SEMINAR IN THE DEVELOPMENT OF GEOGRAPHIC THOUGHT

Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Geography

GEOG 70881 CONTEMPORARY ISSUES IN GEOGRAPHY

Review of some of the important philosophical, methodological and contextual research areas in geography. Designed to expose students to potential

research areas. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 71050 POLAR AND ALPINE ENVIRONMENTS

The geographic features of the Earth's cold treeless regions are examined including climate, soils, glaciers, permafrost, plant and animal life and human activities. Prerequisite: GEOG 21062 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 71052 GLACIERS AND GLACIATION

Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 71060 SEMINAR IN PHYSICAL GEOGRAPHY

Research and investigation concerning theories and concepts relevant to formation of physical elements of earth's environment. Direct and indirect relationships of physical processes human activity and physical environment. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Geography

GEOG 71062 ADVANCED PHYSICAL GEOGRAPHY

Advanced systematic analysis of the elements of physical geography. Specific methodologies and their application to physical geography are also discussed. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 71066 CLIMATE CHANGE AND ITS IMPACTS

Examination of the evidence and causes of climate change and how these data are assessed. Past, present and future impacts of climate change and variability are discussed along with policy implications. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate



Schedule Types: Lecture
Department: Geography

GEOG 71073 CONSERVATION OF OUR NATURAL RESOURCES

Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 71074 RESOURCE GEOGRAPHY

Cultural attitudes, conceptual approaches and techniques in resource geography; analysis of selected resource issues at various areal scales. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 71082 GEOGRAPHY OF SOILS

Study and analysis of different soil types in their relation to geographic factors. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 72052 MEDICAL GEOGRAPHY

Examines the geographic patterns of morbidity and mortality, environmental correlates of major diseases and disease diffusion. Locational and accessibility issues of health care are discussed. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 72061 SEMINAR IN CULTURAL GEOGRAPHY

Investigation of theories, concepts and trends in cultural geography. Impact of beliefs, values and attitudes on rural and urban landscape. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Geography

GEOG 72062 BEHAVIORAL GEOGRAPHY

Focuses on spatial perception, cognition and behavior. How we collect and process spatial information behavior in space, locate space and interact in space. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Geography

GEOG 72064 HISTORICAL GEOGRAPHY OF THE UNITED STATES AND CANADA

Study of regional origins, growth, evolution of spatial organization, changing evaluation of environments and selective geographies in United States and Canada from pre-colonial times to present. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 74010 GEOGRAPHY OF THE GLOBAL ECONOMY

Geographic analysis of the increasing interconnectedness of economic activity. The social, technological and political changes associated with globalization are also discussed. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 74040 SEMINAR IN ECONOMIC GEOGRAPHY

Survey of recent literature in economic geography, including industrial and technological change services and the world economy. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Geography

GEOG 74070 SPATIAL ANALYSIS AND LOCATION THEORY

Classical theories for location of economic activities and contemporary approach of spatial analysis, spatial organization of economic systems, behavioral models in economic geography and spatial allocation problems. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 75065 SEMINAR IN THE GEOGRAPHY OF TRANSPORTATION

Concepts and theories of distribution of modes of transportation as geographic factor in spatial analysis of integrated regional development. Prerequisite: Doctoral standing.

2.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Geography

GEOG 75085 URBAN TRANSPORTATION

Spatial interaction patterns in urban environments. Travel behavior, commodity flows, traffic patterns and urban transportation systems. Urban transportation problems. Theoretical developments and techniques of analysis in urban transportation. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 76035 MARKETING GEOGRAPHY

Study of spatial arrangement and functions of market centers and the internal spatial patterns of retail-wholesale facilities in urban areas. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 76065 ADVANCED URBAN GEOGRAPHY

Investigation of advanced concepts pertaining to the spatial structure of urban areas. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 76070 URBAN AND REGIONAL PLANNING

Analysis of the geographical aspects of planning for cities and regions. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 76081 SEMINAR IN URBAN GEOGRAPHY

Theoretical explanations of urban spatial patterns. Application of contemporary theories concepts and methods to selected urban geographic problems. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Geography

GEOG 77091 SEMINAR IN REGIONAL GEOGRAPHY

Seminar on one of the major regions of world offered by title in given semester. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Geography



GEOG 79004 ANALYSIS OF SPATIAL DATA

Application of distance measures and taxonomic techniques, analysis of association between different distributions, explanation and prediction of spatial and temporal trends--regression methods (linear and nonlinear), trend surface techniques, and spatial auto correlation to the geographic analysis and spatial distributions. Prerequisite: GEOG 39002 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79007 QUANTITATIVE METHODS IN GEOGRAPHY

Quantitative methods in the geographic analysis of spatial phenomena. Statistical methods of regional analysis and synthesis. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79009 SPATIAL ALGORITHMS

This course explores the methodologies of how to conduct spatial analyses in a computer environment. Half the course will be in a structured teaching context and half will be project work. Prerequisite: GEOG 4/5/79006 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79010 URBAN INFORMATION AND SYSTEMS METHODOLOGY

Urban information processing procedures for acquiring and using information; research design which emphasizes systems planning prior to research quantitative methods and stress analysis of statistical results. Prerequisite: Doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79070 GEOGRAPHIC INFORMATION SCIENCE

Introduction to theories and methods for geographic data processing, including data capture and input data storage and management and data analysis and displays. Emphasis is on laboratory exercises using GIS software packages for real world applications. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79076 SPATIAL PROGRAMMING

Examination of the design, development and use of geographic information technologies with computer programming to model process and visualize geographic phenomena. Prerequisite: GEOG 79070 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79080 ADVANCED GEOGRAPHIC INFORMATION SCIENCE

Advanced theories and techniques for handling geographic information systems, including 2D and 3d processing of geographic information, detection and analysis of geographic patterns, 2D and 3D mapping of geographic information, modeling of geographic processes and an overview of GIS programming tools. Prerequisite: GEOG 4/5/79070 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79162 ADVANCED CARTOGRAPHY

Study of the design and production of complex maps, symbolization composition and color utilization. Prerequisite: GEOG 39161 and doctoral standing. Corequisite: GEOG 5/79163.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79163 ADVANCED CARTOGRAPHY LABORATORY

Practical experience in the techniques of the production and reproduction of maps. Prerequisite: Doctoral standing.
1.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Geography

GEOG 79165 GEOMAPPING

Information theory, data collection, automated mapping systems, representation of surfaces, lines and points, geographic data structures and applications. Mapping by line printer plotters and interactive terminals. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79210 EARTH IMAGERY

The student in this course will be introduced to the full variety of methods of imaging the earth for environmental analysis, including

satellite methods. Prerequisite: GEOG 29160 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79211 EARTH IMAGERY LABORATORY

This course will support the lecture course, Earth Imagery by giving the student exposure to the methods of manual measurement and interpretation of images. Corequisite: GEOG 5/79210 and doctoral standing.
1.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Geography

GEOG 79230 REMOTE SENSING

Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79480 FIELD STUDY IN GEOGRAPHY

Presents methods of planning and structuring field studies, the techniques of mapping and data gathering in the analysis of local field problems. Prerequisite: Special approval and doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Geography

GEOG 79694 COLLEGE TEACHING OF GEOGRAPHY

Staff training and experience in college teaching. Repeated registration permitted up to 10 hours for doctoral students. Maximum of 3 hours applicable toward master's degree requirements (with department's approval). Prerequisite: Doctoral standing.
2.000 OR 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geography

GEOG 79808 ADVANCED SPATIAL MULTIVARIATE TECHNIQUES

Geographic application of multivariate techniques such as: multidimensional scaling, spatial filtering, and linear programming to the spatial analysis of flows, surfaces and distributions. Prerequisite: GEOG 79007 and doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Geography

GEOG 79890 APPLIED GEOGRAPHY

Detailed investigation of application of geographic techniques and knowledge toward problem solving in the "real world."

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geography

GEOG 80197 INTRADEPARTMENTAL COLLOQUIUM

One hour credit per semester. Prerequisite: Doctoral standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: Geography

GEOG 80199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Special approval and doctoral standing.

15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Geography

GEOG 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: GEOG 80199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Geography

GEOG 80998 RESEARCH

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Doctoral standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Geography

GEOG 81091 RESEARCH IN PHYSICAL RESOURCES

Research on basic processes related to formation of physical environment.

Investigation of significant variables in resource utilization relevant to regional planning and development. Prerequisite: Doctoral standing.

2.000 OR 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Geography

GEOG 81098 RESEARCH IN URBAN CLIMATOLOGY

Research on basic climatological processes both macro and micro by use of established instrument stations. Influence of expanding urbanization on climatic modification.

Prerequisite: Doctoral standing.

2.000 OR 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Geography

GEOG 82091 RESEARCH IN HUMAN RESOURCES

Research on basic processes related to formation of cultural environment. Investigation of significant variables in human resource allocation and utilization, manpower, education, etc. as factors in growth and development of region.

Prerequisite: Doctoral standing.

2.000 OR 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Geography

GEOG 89082 FOREIGN FIELD RESEARCH

Application of field, statistical and cartographic techniques to methodological or conceptual problems in foreign region. Emphasis on research design. Prerequisite: Special approval and doctoral standing.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Field Experience

Department: Geography

GEOG 89092 GRADUATE FIELD CAMP

Field research problems involving individual investigation of specific urban or rural region. Prerequisite: Doctoral standing.

5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Field Experience

Department: Geography

GEOG 89098 RESEARCH IN CARTOGRAPHY

Investigations into function of map as medium of scientific expression; problem of map design in relation to human perception of graphically expressed spatial information. Prerequisite: Doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Geography

Geology (GEOL)

GEOLOGY 11040 EARTH DYNAMICS

Application of basic concepts and theories of Earth science to the interpretation of Earth materials and dynamic processes

(erosion, sedimentation, volcanism, continental drift). Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

Course Attributes: Kent Core-Basic

Sciences, TAG Science, Transfer Module-Natural Sciences

GEOLOGY 11041 EARTH DYNAMICS LABORATORY

Laboratory study of minerals, rocks, aerial photos, topographic maps and geologic maps. Pre- or corequisite: GEOL 11040.

1.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Geology

Course Attributes: Kent Core-Basic

Sciences, Kent Core-Basic Sciences Lab, TAG Science

GEOLOGY 11042 EARTH HISTORY

Application of basic concepts and theories of Earth science to the interpretation of the origin and evolution of the solar system, the Earth, the structures of the crust and life.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

Course Attributes: Kent Core-Basic Sciences, TAG Science

GEOLOGY 11043 EARTH HISTORY LABORATORY

Laboratory study of fossils, sedimentary rocks and geologic maps in the framework of interpreting Earth history. Pre- or corequisite: GEOL 11042.

1.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Geology

Course Attributes: Kent Core-Basic

Sciences, TAG Science, Transfer Module-Natural Sciences

GEOLOGY 21061 GLACIAL GEOLOGY

Origin and movement of glaciers, glacial erosion, transport, nature of glacial drift, Pleistocene stratigraphy, periglacial phenomena and climatic oscillations. Field trips. Lecture three hours weekly.

Prerequisite: GEOL 11041.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

GEOLOGY 21062 ENVIRONMENTAL GEOLOGY

Application of geology to environmental problems, including natural resource extraction, water supply, pollution, waste disposal, landslides, floods and land use



planning. Field trips. Lecture three hours weekly. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

Course Attributes: Kent Core-Basic Sciences

GEOL 21080 OCEANOGRAPHY

Introduction to geological, physical, chemical and biological nature of the oceans. Lecture three hours weekly. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

Course Attributes: Kent Core-Basic Sciences

GEOL 23063 EARTH MATERIALS I

Occurrence, associations, characteristics, crystallography and crystal chemistry of common minerals. Laboratory identification emphasizing physical properties. Lecture three hours, lab two hours weekly. Required field trip. Prerequisite: GEOL 11040 and GEOL 11041; and pre- or corequisite CHEM 10060.

4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Geology

GEOL 31070 EARTH MATERIALS II

Occurrence and origin of igneous, sedimentary and metamorphic rocks. Laboratory identification, description and classification of hand specimens. Lecture three hours, lab two hours weekly. Required field trip. Prerequisite: GEOL 23063.

4.000 Credit hours

3.000 Lecture hours

0.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Geology

GEOL 31080 STRUCTURAL GEOLOGY

Mechanical principles of rock deformation. Structures in sedimentary igneous and metamorphic rocks. Lecture three hours lab two hours weekly. Required field trip. Prerequisite: GEOL 31070.

4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Geology

GEOL 32066 GEOMORPHOLOGY

Earth's surface features as functions of geological structures, processes and time. Landform analysis using topographic maps and some stereographic aerial photos. Lecture three hours, lab two hours weekly. Trigonometry recommended. Prerequisite: GEOL 11040 and GEOL 11041.

4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Geology

GEOL 34061 INVERTEBRATE

PALEONTOLOGY

Concepts applied to study of commonly preserved invertebrate organisms; identification of common North American fossils. Lecture three hours, lab two hours weekly. Required field trip. Prerequisite: GEOL 11042 and GEOL 11043; and either BSCI 10110 or BSCI 30560.

4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Geology

Course Attributes: Writing Intensive Course

GEOL 40093 VARIABLE TITLE

WORKSHOP IN GEOLOGY

Workshop and/or training program focused on a specific professional or disciplinary topic. Prerequisite: Special approval.

1.000 TO 8.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Geology

GEOL 40095 SELECTED TOPICS IN

GEOLOGY

Selected topics presented by visiting professors or one-time offerings presented by regular faculty. Prerequisite: 20 hours of geology courses.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

GEOL 40096 INDIVIDUAL

INVESTIGATION IN GEOLOGY

Directed field, laboratory and/or library research. Written report required. Open on special approval of faculty member directing work. Only 3 hours will be applied toward baccalaureate degree. Does not count toward geology major. Prerequisite: Special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Geology

GEOL 41025 GENERAL GEOPHYSICS

Physics of Earth, seismology, geomagnetism, heat flow, radioactivity, geochronology, geotectonic models. Required field trip. Prerequisite: GEOL 31070 and GEOL 31080 and MATH 12002; and PHY 13001 or PHY 23101.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

GEOL 41073 GEOLOGY OF OHIO

Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips.

Does not satisfy requirements of geology major. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

GEOL 41075 GEOLOGY OF THE UNITED STATES

Distribution of natural regions and geologic features of United States. Geologic concepts illustrated by detailed examination of selected areas. Prerequisite: GEOL 31070 and GEOL 31080.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

GEOL 41077 GEOLOGY OF THE NATIONAL PARKS

Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes which have produced the spectacular scenery, rocks and fossils in each park. Not counted toward requirements for a major in geology. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

GEOL 41079 ALL ABOUT DINOSAURS

Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not satisfy requirements of geology major. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

GEOL 41080 TECTONICS AND OROGENY

Introduces advanced concepts of plate tectonics and mountain building with emphasis on Western United States and Appalachians. Required field trip to New England. Prerequisite: GEOL 31080.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Geology

GEOL 41092 SUMMER FIELD CAMP

Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in Black Hills, S.D. Special fee on actual cost basis. Prerequisite: GEOL 31070 and GEOL 31080.

6.000 Credit hours

42.000 Other hours



Level: Undergraduate
Schedule Types: Practicum
Department: Geology

GEOL 42030 REMOTE SENSING

Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geology

GEOL 42035 SCIENTIFIC METHODS IN GEOLOGY

Applying scientific methods to geologic data in the field and lab; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses.

Provides background necessary for upper-level geology courses for majors. Lecture two hours, lab two hours weekly.

Prerequisite: none.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Geology

GEOL 42067 INTRODUCTORY HYDROGEOLOGY

Occurrence of ground water in geologic materials; emphasizing utilization conservation and management of ground water resources. Lecture two hours lab two hours weekly. Prerequisite: MATH 12002; and GEOL 31070 and GEOL 32066.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geology

GEOL 42068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY

An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems. Prerequisite: GEOL 42067 and CHEM 10060 and CHEM 10061 and CHEM 10062 and CHEM 10063.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geology

GEOL 42069 HYDROGEOCHEMISTRY

Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydro chemical interpretation applied to ground water and pollution problems. Lecture three hours weekly. Prerequisite: 10 hours of chemistry.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geology

GEOL 42074 ENVIRONMENTAL CORE AND WELL LOGGING

Examination of subsurface processes and the distribution of stratigraphic layers using core and well logging techniques based on analysis of physical properties of sediment, rock and pore fluids. Applications to paleoclimate, hydrogeology, engineering geology, oil and gas exploration and environmental remediation. Prerequisite: GEOL 31070.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geology

GEOL 42078 ENGINEERING GEOLOGY

Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels, and highways. Slope stability. Lecture three hours and lab two hours weekly. Prerequisite: Geology majors with junior standing.

4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Geology

GEOL 43040 PRINCIPLES OF GEOCHEMISTRY

Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the earth and laws governing these distributions. Prerequisite: GEOL 31070; and MATH 12002; and CHEM 10060 and CHEM 10061.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geology

GEOL 43066 OPTICAL PETROGRAPHY

Theory of optical crystallography and the microscopic examination and identification of igneous, sedimentary and metamorphic rocks in thin section. Lecture two hours, lab two hours weekly. Prerequisite: GEOL 31070.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geology

GEOL 44052 GLACIERS AND GLACIATION

Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change, and how they pose high risk hazards. Prerequisite: GEOG 21062 or GEOL 11040.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geology

GEOL 44070 SEDIMENTOLOGY AND STRATIGRAPHY

Students are introduced to the principles regarding the systematics of sedimentary rocks and the relationships between geologic formations at various spatial and temporal scales. Lectures are integrated with readings from the open literature and required labs and field trips. Prerequisite: GEOL 31070 and GEOL 34061.

4.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Geology

GEOL 44074 PALEOCEANOGRAPHY

A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy is employed to interpret the history of earth's oceans. Prerequisite: Senior standing in geology.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Geology

GEOL 50093 VARIABLE TITLE WORKSHOP IN GEOLOGY

Workshop or training program focused on a specific professional or disciplinary topic within geology. Repeat registration permitted. Prerequisite: Graduate standing and special approval.

1.000 TO 8.000 Credit hours
8.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Geology

GEOL 50095 SELECTED TOPICS IN GEOLOGY

Selected topics presented by visiting professors or one-time offerings presented by regular faculty. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 51025 GENERAL GEOPHYSICS

Physics of Earth. Seismology, geomagnetism; heat flow, radioactivity, geochronology, gravity and isostasy, geotectonic models. Lecture 3 hours weekly. Required field trip. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 51073 GEOLOGY OF OHIO

Minerals, rocks, fossils, structural geology, physiography, environmental geology, geologic resources. Required field trips. Does not satisfy requirements for major in geology. Prerequisite: Graduate standing.

3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 51075 GEOLOGY OF THE UNITED STATES

Distribution of natural regions and geologic features of the United States. Geologic concepts illustrated by detailed examination of selected areas. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 51077 GEOLOGY OF THE NATIONAL PARKS

Introduction to the geology of selected major national parks, emphasizing basic geological principles and the processes which have produced the spectacular scenery, rocks and fossils in each park. Not counted toward requirements for a major in geology. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 51079 ALL ABOUT DINOSAURS

Dinosaurs (and some relatives) and their world, emphasizing how to interpret evidence concerning their history, biology and evolutionary relationships. Does not satisfy requirements of geology major. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 51080 TECTONICS AND OROGENY

Introduces advanced concepts of plate tectonics and mountain building with emphasis on Western United States and Appalachians. Required field trip to New England. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 51092 SUMMER FIELD CAMP

Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in Black Hills, S.D. Special fee on actual cost basis. Prerequisite: graduate standing.

6.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 52030 REMOTE SENSING

Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth

Science are emphasized. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 52035 SCIENTIFIC METHODS IN GEOLOGY

Applying scientific methods to geologic data in the field and lab; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses. Lecture two hours, lab two hours.

Prerequisite: graduate standing.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Geology

GEOL 52067 INTRODUCTORY HYDROGEOLOGY

Occurrence of ground water in geologic materials; emphasizing utilization, conservation and management of ground water resources. Lecture two hours, laboratory two hours weekly. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 52068 CONTAMINANT HYDROLOGY AND HYDROGEOLOGY

An introduction to the basic principles of chemical and physical behavior of contaminants introduced by humans into the environment. Students are expected to understand concepts and work practical quantitative problems. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 52069 HYDROGEOCHEMISTRY

Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydro chemical interpretation applied to ground water and pollution problems. Lecture three hours weekly. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 52074 ENVIRONMENTAL CORE AND WELL LOGGING

Examination of subsurface processes and the distribution of stratigraphic layers using core and well logging techniques based on analysis of physical properties of sediment, rock and pore fluids. Applications to paleoclimate, hydrogeology, engineering

geology, oil and gas exploration and environmental remediation. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 52078 ENGINEERING GEOLOGY

Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels and highways. Slope stability. Lecture three hours and lab two hours weekly. Prerequisite: Graduate standing.

4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Geology

GEOL 53040 PRINCIPLES OF GEOCHEMISTRY

Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 53066 OPTICAL PETROGRAPHY

Theory of optical crystallography and the microscopic examination and identification of igneous, sedimentary and metamorphic rocks in thin section. Lecture two hours, laboratory two hours weekly. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 54052 GLACIERS AND GLACIATION

Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 54070 SEDIMENTOLOGY AND STRATIGRAPHY

Students are introduced to the principles regarding the systematics of sedimentary rocks and the relationships between geologic formations at various spatial and temporal scales. Lectures are integrated with readings from the open literature and required labs and field trips. Prerequisite: graduate standing.

4.000 Credit hours
3.000 Lecture hours



2.000 Lab hours
1.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Geology

GEOL 54074 PALEOCEANOGRAPHY

A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy is employed to interpret the history of Earth's oceans. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 60080 RESEARCH ORIENTATION

Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts and oral presentation of papers. Prerequisite: Graduate standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 60091 SEMINAR

Specialized topics in geology. Precise title to be inserted in schedule of classes. Prerequisite: Graduate standing.
1.000 TO 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Geology

GEOL 60094 COLLEGE TEACHING OF APPLIED GEOLOGY

Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 60095 SELECTED TOPICS IN GEOLOGY

Selected topics presented by visiting professors or one-time offerings presented by regular faculty. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 60098 RESEARCH

Research for master's level students. Credits earned may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 TO 15.000 Credit hours
15.000 Other hours

Level: Graduate
Schedule Types: Research
Department: Geology

GEOL 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Geology

GEOL 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: GEOL 60199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Geology

GEOL 61020 ADVANCED STRUCTURAL GEOLOGY

Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Required field trip. Prerequisite: GEOL 31080 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 61050 PRECAMBRIAN GEOLOGY

Study of earth history and processes during the Precambrian, including role of plumes, meteorite bombardment and tectonic processes on crustal evolution. Covers age of the earth, formation and growth of crust, super plume and supercontinent cycles, United Plates of America. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 61093 WORKSHOP IN COLLEGE TEACHING

Workshop in college teaching. Prerequisite: Graduate standing.
1.000 TO 2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Geology

GEOL 61094 COLLEGE TEACHING

Prerequisite: Graduate standing.
1.000 TO 2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 62011 HYDROLOGY

Introduction to hydrologic measurements, properties of water precipitation, evapotranspiration runoff computations, streamflow and flood routing. Prerequisite: GEOL 32066 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 62025 EXPLORATION GEOPHYSICS

Application of magnetic, gravity, seismic and electrical methods to the solution of geologic problems and in resource exploration involving practical study in selected areas. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 62063 COMPUTER SIMULATION IN GEOLOGY

Spatial and temporal considerations in geoscience simulations. Use of geological data in modeling verification and validation of models. Display techniques. Sensitivity and Monte Carlo analyses. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 62065 MODELING IN HYDROGEOLOGY

Advanced study, construction and application of a variety of modeling techniques to solve groundwater-related problems. Design, construction, programming and operation of analog and numerical models. Prerequisite: GEOL 62068 or 72068; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 62066 QUANTITATIVE GEOMORPHOLOGY

Interactions of landforming systems. Slope processes, erosion, stream hydrology including runoff relations and discharge curves. Algebra of streams and topologic structure. Lecture two hours, laboratory one hour weekly. Prerequisite: GEOL 32066 and GEOL 4/5/72035 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology



GEOL 62067 GEOPHYSICAL FLUID DYNAMICS

Consideration of basic physical equations of fluid flow. Application to hydraulics, atmosphere, oceans and mechanics of ice motion. Numerical and computer implementation. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 62068 ADVANCED HYDROGEOLOGY

Quantitative approach to occurrence of ground water; methods of investigation, evaluation and development of ground water resources emphasizing optimization and maximal exploitation without environmental changes. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 62070 GEOLOGY AND THE LAW

Legal aspects of the practice of geology as a profession. Emphasis is placed on the sources of the law which affect the practice both substantively and procedurally.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 62079 ADVANCED ENGINEERING GEOLOGY

Role of geology in site selection, design and construction relative to dams, tunnels, highways, slope stability and nuclear power plants. Selected case histories. Lecture three hours weekly. Field trip and term paper required. Prerequisite: GEOL 4/52078 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 62082 INTRODUCTION TO SOIL MECHANICS

Engineering properties and engineering behavior of soils including classification properties, compaction permeability strength and compressibility. Lecture three hours and lab two hours weekly.

Prerequisite: graduate standing.

4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Geology

GEOL 62083 ROCK SLOPE STABILITY

Provide information used to recognize, avoid, design for, control and correct slope movements in rocks; determination of shear strength along rock discontinuities; stability

analysis of rock slopes. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 62084 FOUNDATION ENGINEERING

Seepage and drainage of foundation soils. Subsurface investigations. Principles, design and construction of shallow and deep foundations. Earth retaining structures. Lecture three hours weekly.

Prerequisite: GEOL 42078 or 52078 or 42082 or 52082 or 72082; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 63045 ADVANCED GEOCHEMISTRY

Advanced study of selected topics in low-temperature and/or high-temperature geochemistry, including principles of phase equilibria and applications to geochemical systems. Prerequisite: GEOL 4/53040 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 63046 RADIOGENIC ISOTOPE GEOLOGY

Distribution and production of radiogenic isotopes in the Earth's crust. Principles of isotopic geochronology in selected mineral-rock systems including: RB-SR, U-TH-PB, and K-AR. Modern instrumental methods of isotopic analysis and in-situ geochronology of rocks and minerals. Prerequisite: GEOL 43040 or GEOL 53040 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 63047 SELECTED INSTRUMENTAL METHODS OF GEOCHEMICAL ANALYSIS

Selected spectroscopic techniques commonly used in analysis of geological samples. Laboratory teaches geological sample preparation analytical methods development and operation of chemical instrumentation. Prerequisite: GEOL 4/53040 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 63052 X-RAY CRYSTALLOGRAPHY

Investigation of crystalline materials by their diffraction of X-radiation. Applications of the powder method in mineralogy are emphasized. Lecture two hours, laboratory two hours weekly. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 63055 ADVANCED IGNEOUS AND METAMORPHIC PETROLOGY

Petrogenic processes relevant to evolution of selected rock groups. Petrologic techniques and methods of analysis. Microscopic study of selected rock suites. Required field trip. Prerequisite: GEOL 4/53066 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 63063 SEDIMENTARY PETROLOGY

Classification, texture, composition, provenance and diagenesis of sandstones and carbonates, following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 63067 CARBONATE ROCKS

Basic principles of carbonate sedimentology including composition, classification, origin and distribution of carbonate sediments their diagenesis and lithification. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 63069 CLAY MINERALOGY

Clay mineral classification, structures, identification. Formation, geochemical principles, chemical weathering, diagenesis, metamorphism, wallrock alteration. Industrial uses, engineering applications. Lecture two hours laboratory, two hours weekly. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 63085 GEOCHEMICAL EXPLORATION

Distribution and mobility of the elements. Sampling techniques analytical methods.



Primary dispersion. Secondary dispersion in sediment, soil, water, vegetation. Lecture two hours, laboratory two hours weekly. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 64028 PALEOECOLOGY

Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 64030 SYSTEMATIC INVERTEBRATE PALEONTOLOGY I

Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 64032 SYSTEMATIC INVERTEBRATE PALEONTOLOGY II

Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and Echinodermata. Numerous oral reports, specimen examination. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 64034 MICROPALAEONTOLOGY

Study of more important microfossil groups found in geologic record, emphasizing Foraminiferida, Ostracoda and Conodonts. Techniques for collecting, preparing and studying microfossils. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 64036 CENOZOIC CLIMATE CHANGE

An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 64038 PALEOLIMNOLOGY

An overview of significant topics and applications in paleolimnology of Holocene (last 10,000 years) and Pleistocene (last 2 million years) records, including current issues in environmental and climatic reconstruction. Extensive reading expected. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 64065 SEDIMENTOLOGY

Fluid dynamics, grain transport, sedimentary structures, granulometry, bedform and facies sequences, and facies architecture. Interpretation of continental and marine clastic depositional environments and processes. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 64067 TECTONICS AND SEDIMENTATION

The distribution and migration of depositional sedimentary environments as a function of tectonic regime, climate and time. Prerequisite: GEOL 674065 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 64071 ADVANCED STRATIGRAPHY

Advanced graduate consideration of stratigraphic problems, procedures and analyses. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 70080 RESEARCH ORIENTATION

Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts and oral presentation of papers. Prerequisite: Doctoral standing.

1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 70091 SEMINAR

Specialized topics in geology. Precise title to be inserted in schedule of classes. Prerequisite: Doctoral standing.

1.000 TO 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Geology

GEOL 70093 VARIABLE TITLE WORKSHOP IN GEOLOGY

Workshop and/or training program, of varying duration focused on a specific professional or disciplinary topic. Prerequisite: Special approval and doctoral standing.

1.000 TO 8.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Geology

GEOL 70094 COLLEGE TEACHING OF APPLIED GEOLOGY

Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities. Prerequisite: Doctoral standing.

1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 71020 ADVANCED STRUCTURAL GEOLOGY

Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Prerequisite: GEOL 31080 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 71050 PRECAMBRIAN GEOLOGY

Study of earth history and processes during the precambrian, including role of plumes, meteorite bombardment and tectonic processes on crustal evolution. Covers age of the earth, formation and growth of crust, Superplume and supercontinent cycles, United Plates of America. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 71093 WORKSHOP IN COLLEGE TEACHING

Workshop in college teaching. Prerequisite: Doctoral standing.

1.000 TO 2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Geology

GEOL 71094 COLLEGE TEACHING

Prerequisite: Doctoral standing.
1.000 TO 2.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72011 HYDROLOGY

Introduction to hydrologic measurements, properties of water precipitation, evapotranspiration, runoff computations, streamflow and flood routing. Prerequisite: GEOL 32066 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72025 EXPLORATION GEOPHYSICS

Application of magnetic, gravity, seismic and electrical methods to the solution of geologic problems and in resource exploration involving practical study in selected areas. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72030 REMOTE SENSING

Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72063 COMPUTER SIMULATION IN GEOLOGY

Spatial and temporal considerations in geoscience simulations. Use of geological data in modeling verification and validation of models. Display techniques. Sensitivity and Monte Carlo analyses. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72065 MODELING IN HYDROGEOLOGY

Advanced study, construction and application of a variety of modeling techniques to solve groundwater-related problems. Design, construction, programming and operation of analog and numerical models. Prerequisite: GEOL 62068 OR 72068 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72066 QUANTITATIVE GEOMORPHOLOGY

Interactions of landforming systems. Slope processes, erosion, stream hydrology

including runoff relations and discharge curves. Algebra of streams and topologic structure. Lecture two hours, laboratory one hour weekly. Prerequisite: GEOL 32066 and GEOL 4/5/72035 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72067 GEOPHYSICAL FLUID DYNAMICS

Consideration of basic physical equations of fluid flow. Application to hydraulics, atmosphere, oceans and mechanics of ice motion. Numerical and computer implementation. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72068 ADVANCED HYDROGEOLOGY

Quantitative approach to occurrence of ground water; methods of investigation evaluation and development of ground water resources emphasizing optimization and maximal exploitation without environmental changes. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72069 HYDROGEOCHEMISTRY

Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to ground water and pollution problems. Lecture three hours weekly. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72070 GEOLOGY AND THE LAW

Legal aspects of the practice of geology as a profession. Emphasis is placed on the sources of the law which affect the practice both substantively and procedurally. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72079 ADVANCED ENGINEERING GEOLOGY

Role of geology in site selection, design and construction relative to dams tunnels highways slope stability and nuclear power plants. Selected case histories. Lecture three hours weekly. Field trip and term

paper required. Prerequisite: GEOL 4 52078 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72082 INTRODUCTION TO SOIL MECHANICS

Engineering properties and engineering behavior of soils including classification properties, compaction permeability strength and compressibility. Lecture three hours and lab two hours weekly. Prerequisite: doctoral standing.
4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Geology

GEOL 72083 ROCK SLOPE STABILITY

Provide information used to recognize, avoid design for control and correct slope movements in rocks determination of shear strength along rock discontinuities stability analysis of rock slopes. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 72084 FOUNDATION ENGINEERING

Seepage and drainage of foundation soils. Subsurface investigations. Principles design and construction of shallow and deep foundations. Earth retaining structures. Lecture three hours weekly. Prerequisite: GEOL 42078 or 52078 or 42082 or 52082 or 72082; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 73045 ADVANCED GEOCHEMISTRY

Advanced study of selected topics in low-temperature and/or high-temperature geochemistry, including principles of phase equilibria and applications to geochemical systems. Prerequisite: GEOL 4 53040 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 73046 RADIOGENIC ISOTOPE GEOLOGY

Distribution and production of radiogenic isotopes in the earth's crust. Principles of isotopic geochronology in selected mineral rock systems including Rb-Sr, U-Pb and K-Ar. Modern instrumental methods of isotopic analysis and in situ geochronology of rocks and minerals. Prerequisite: GEOL



43040 53040 or equivalent doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 73047 SELECTED INSTRUMENTAL METHODS OF GEOCHEMICAL ANALYSIS

Selected spectroscopic techniques commonly used in analysis of geological samples. Laboratory teaches geological sample preparation analytical methods development and operation of chemical instrumentation. Prerequisite: GEOL 4 53040 or permission. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 73052 X-RAY CRYSTALLOGRAPHY

Investigation of crystalline materials by their diffraction of x-radiation. Applications of the powder method in mineralogy are emphasized. Lecture two hours laboratory two hours weekly. Prerequisite: Permission and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 73055 ADVANCED IGNEOUS AND METAMORPHIC PETROLOGY

Petrogenic processes relevant to evolution of selected rock groups. Petrologic techniques and methods of analysis. Microscopic study of selected rock suites. Required field trip. Prerequisite: GEOL 4 53066 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 73063 SEDIMENTARY PETROLOGY

Classification, texture composition provenance and diagenesis of sandstones and carbonates following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 73067 CARBONATE ROCKS

Basic principles of carbonate sedimentology including composition, classification origin and distribution of carbonate sediments their diagenesis and lithification. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 73069 CLAY MINERALOGY

Clay mineral classification, structures, identification. Formation, geochemical principles, chemical weathering, diagenesis, metamorphism, wallrock alteration. Industrial uses, engineering applications. Lecture two hours laboratory, two hours weekly. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 73085 GEOCHEMICAL EXPLORATION

Distribution and mobility of the elements. Sampling techniques; analytical methods. Primary dispersion. Secondary dispersion in sediment, soil, water, vegetation. Lecture two hours, laboratory two hours weekly. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 74028 PALEOECOLOGY

Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 74030 SYSTEMATIC INVERTEBRATE PALEONTOLOGY I

Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 74032 SYSTEMATIC INVERTEBRATE PALEONTOLOGY II

Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and Echinodermata. Numerous oral reports, specimen examination. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 74034 MICROPALEONTOLOGY

Study of more important microfossil groups found in geologic record, emphasizing Foraminiferida, Ostracoda and Conodonts. Techniques for collecting, preparing and studying microfossils. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 74036 CENOZOIC CLIMATE CHANGE

An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 74038 PALEOLIMNOLOGY

An overview of significant topics and applications in paleolimnology of Holocene (last 10,000 years) and Pleistocene (last 2 million years) records, including current issues in environmental and climatic reconstruction. Extensive reading expected. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 74052 GLACIERS AND GLACIATION

Examination of how glacial ice masses change the shape of the earth's surface, how they are integral to climate and sea level change and how they pose high risk hazards. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology

GEOL 74065 SEDIMENTOLOGY

Fluid dynamics, grain transport, sedimentary structures, granulometry, bedform and facies sequences and facies architecture. Interpretation of continental and marine clastic depositional environments and processes. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Geology



GEOL 74067 TECTONICS AND SEDIMENTATION

The distribution and migration of depositional sedimentary environments as a function of tectonic regime, climate and time. Prerequisite: GEOL 6/74065 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 74071 ADVANCED STRATIGRAPHY

Advanced graduate consideration of stratigraphic problems, procedures and analyses. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 80091 SEMINAR IN APPLIED GEOLOGY

Specialized topics in applied geology. Precise title to be inserted in schedule of classes. Prerequisite: Doctoral standing.
1.000 TO 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Geology

GEOL 80095 ADVANCED TOPICS IN GEOLOGY

Advanced topics presented by visiting professors or one-time offerings presented by regular faculty. Prerequisite: Special approval and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Geology

GEOL 80098 RESEARCH

Research for doctoral students. Credits earned may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Doctoral standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Geology

GEOL 80199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Admission to candidacy for doctoral degree and doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Geology

GEOL 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met. Prerequisite: GEOL 80199 and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Geology

German (GER)

GER 11201 ELEMENTARY GERMAN I

An introduction to the German language in the context of the cultures of German-speaking lands. Prerequisite: None.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 11202 ELEMENTARY GERMAN II

A continuation of the introduction to the German language in the context of the cultures of German-speaking lands. Prerequisite: GER 11201.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 21201 INTERMEDIATE GERMAN I

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: GER 11202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 21202 INTERMEDIATE GERMAN II

Continuation of GER 21201. Prerequisite: GER 21201.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 23531 YIDDISH SHORT STORY

Introduction to Yiddish short stories in English translation with a special emphasis on works by Aleichem, Peretz and Mendele. Prerequisite: Sophomore standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 23532 YIDDISH DRAMA

Examines representative yiddish dramas which reflect the Yiddish-speaking society. They further depict the religious and political conflicts of this society with its Gentile neighbors. Prerequisite: Sophomore standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 31095 SPECIAL TOPICS

Topic announced in schedule of classes. May be repeated when content varies. Prerequisite: Junior standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 31201 INTENSIVE GERMAN GRAMMAR

A systematic approach to German grammar and syntax. Prerequisite: GER 21202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 31211 GERMAN COMPOSITION AND CONVERSATION

Grammar review and practice in writing and speaking German. Prerequisite: GER 21202 and GER 31201.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 31215 GERMAN PHONETICS AND DICTION

Study of the German sound system with emphasis on pronunciation and intonation. Reading and performance of a series of skits and short plays. Prerequisite: GER 21202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 31231 TRANSLATION PRACTICE: GERMAN

Translation practice with German texts using principles and techniques learned in the lecture class. Corequisite: MCLS 30230.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

**GER 31240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: GERMAN**

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings. Prerequisite: GER 31211.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 31303 INTRODUCTION TO GERMAN LITERATURE

Introduction to German literature and textual analysis. Prerequisite: GER 21202 and GER 31201.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 31421 GERMAN CIVILIZATION

A survey of German history and intellectual life to 1918; taught in German. Prerequisite: Six hours upper division German courses.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 31501 GERMAN LITERATURE IN ENGLISH TRANSLATION

Reading and analysis of major works of German literature in English translation. No knowledge of German required. May not be counted toward the major or minor. Prerequisite: Junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 41095 SPECIAL TOPICS

Topic announced in schedule of classes. Repeated registration permitted when content varies. Prerequisite: Senior standing.

1.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 41096 INDIVIDUAL INVESTIGATION

Independent investigation of problems in German language or literature. Prerequisite: 6 hours of upper division German and special approval of the department chairperson.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate

Schedule Types: Individual Investigation
Department: Modern and Classical Language Studies

GER 41211 ADVANCED GERMAN COMPOSITION AND CONVERSATION

Advanced practice in speaking and writing German. Prerequisite: GER 31211.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 41216 CONTEMPORARY GERMAN CULTURE

A study of selected sociological, political, cultural and economic issues in contemporary German-speaking countries using readings, films and legal documents as the basis for discussions. Taught in German. Prerequisite: Six hours of upper division German courses.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Writing Intensive Course

GER 41230 ADVANCED TRANSLATION PRACTICE: GERMAN

Theory and practice course that discusses translation theory and emphasizes German-to-English translation of selected texts in business, technology, medicine and law. Prerequisite: GER 31231.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Writing Intensive Course

GER 41240 BUSINESS AND SPECIAL TEXTS: GERMAN

Survey of the typical text types of business in the German culture and language. Practice sessions focus on reading and understanding specialized texts, and on the translation and composition of selected special texts in German. Prerequisite: GER 31211.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 41330 TWENTIETH-CENTURY GERMAN AUTHORS

A survey of the major movements and authors of the twentieth century. Prerequisite: Special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

Course Attributes: Writing Intensive Course

GER 41332 GERMAN LITERATURE BY WOMEN

Readings of works by female German authors. Taught in German. Prerequisite: Junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 41334 THE GERMAN NOVELLA

Development of the German novella from the eighteenth century to the present. Readings of major works lectures analyses taught in German. Prerequisite: Special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 41335 GERMAN DRAMA

An examination of the development of the drama in Germany, Austria and Switzerland. Taught in German. Prerequisite: Six hours of upper division German courses.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 41338 GERMAN POETRY

An examination of the nature of poetry with particular attention to its development in Germany, Austria and Switzerland. Taught in German. Prerequisite: Six hours of upper division German courses.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 41340 HISTORY OF GERMAN LITERATURE TO 1750

A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of the eighteenth century). Prerequisites: GER 31303 and 31421.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

GER 41341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT

A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present. Prerequisites: GER 31303 and 31421.



3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 41365 CLASSICAL GERMAN LITERATURE

Reading and critical analysis of major works of the classical age with emphasis on Goethe. Prerequisite: Special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Writing Intensive Course

GER 41399 RESEARCH PROJECT IN GERMAN LITERATURE

Thesis or other independent study. Prerequisite: 6 hours at the 40000-level.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Senior Project/Honors Thesis
Department: Modern and Classical
Language Studies

GER 41731 SURVEY OF GERMAN CINEMA

A survey of major contributions to the German cinema from the beginnings to the present; taught in German. Prerequisite: Six hours of upper division German courses.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51095 SPECIAL TOPICS

Topic announced in schedule of classes. May be repeated when content varies. Prerequisite: Graduate standing.

1.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51096 INDIVIDUAL INVESTIGATION

Independent investigation of problems in German language or literature. Permission of the department chair required. May be repeated. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Modern and Classical
Language Studies

GER 51212 STYLISTICS

Development of written German style through selected readings, textual analysis and stylistic exercises. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51216 CONTEMPORARY GERMAN CULTURE

A study of selected sociological, political, cultural and economic issues in contemporary German-speaking countries, using readings, films and legal documents as the basis for discussion. Taught in German. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51330 20TH-CENTURY GERMAN AUTHORS

A survey of the major movements and authors of the twentieth century. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51331 HISTORY OF GERMAN LITERATURE

History of the development of German literature from 750 to the present. Prerequisite: Graduate standing.

4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51332 GERMAN LITERATURE BY WOMEN

Readings of works by female German authors. Taught in German. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51334 THE GERMAN NOVELLA

Development of the German novella from the 18th century to the present. Readings of major works, lectures, analyses; taught in German. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51340 HISTORY OF GERMAN LITERATURE TO 1750

A history of the development of German literature from the Germanic tribes through the Age of Enlightenment (the first half of

the eighteenth century). Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51341 HISTORY OF GERMAN LITERATURE 1750 TO THE PRESENT

A history of the development of German literature from the Age of Sensibility (the second half of the eighteenth century) to the present. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51365 CLASSICAL GERMAN LITERATURE

Reading and critical analysis of major works of the classical age with emphasis on Goethe. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 51731 SURVEY OF GERMAN CINEMA

A survey of major contributions to the German cinema from the beginnings to the present; taught in German. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 61001 GRADUATE RESEARCH AND WRITING IN GERMAN

Individual instruction and assistance with problems encountered in academic research and writing in German. Required of all graduate students in their first semester of graduate work. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

GER 61010 THE PRACTICE OF GERMAN TRANSLATION

Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010 and graduate standing.

2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Modern and Classical
Language Studies

GER 61091 VARIABLE TOPIC SEMINAR

Topic announced in schedule of classes.
May be repeated when content varies.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Modern and Classical

Language Studies

GER 61199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Modern and Classical

Language Studies

GER 61200 HISTORY OF THE GERMAN LANGUAGE

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61240 LITERARY AND CULTURAL TRANSLATION

Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into German will also be emphasized.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite:

TRST 60010 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents.

Prerequisite: TRST 60010 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: GER 61199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Modern and Classical

Language Studies

GER 61350 SEMINAR ON THE LYRIC

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61353 SEMINAR ON THE NOVEL

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61354 SEMINAR ON GERMAN DRAMA

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61361 SEMINAR ON THE BAROQUE

Readings in German literature and poetics of the 17th century. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61366 SEMINAR ON ROMANTICISM

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61398 RESEARCH

Research for master's level graduate students. Credit toward degree requirements may be given with department approval. Repeated registration.

Prerequisite: Special approval and graduate standing.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Modern and Classical

Language Studies

GER 61901 READING GERMAN FOR GRADUATE STUDENTS

Introduction to the fundamentals of German grammar for graduate students. Practice in reading and translation. Prerequisite:

Graduate standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61902 READING GERMAN FOR GRADUATE STUDENTS

Continued practice in reading and translation. Independent study of scholarly texts in the student's own discipline.

Prerequisite: GER 61901 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GER 61979 CASE STUDY IN TRANSLATION

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Gerontology (GERO)**GERO 14029 INTRODUCTION TO GERONTOLOGY**

Interdisciplinary approach to the study of the aging process. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, Transfer Module-Social Sciences

GERO 30656 PSYCHOLOGY OF AGING

Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

GERO 41093 VARIABLE TOPIC WORKSHOP IN GERONTOLOGY

Workshop setting dealing with a topic or topics in aging. Learning experiences are provided in a wide range of areas.

Prerequisite: None.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

GERO 41095 SPECIAL TOPICS IN GERONTOLOGY

Discussion of a major topic within a specific field of gerontology. Prerequisite: None.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

GERO 41096 INDIVIDUAL INVESTIGATION

Independent study in gerontology.

Prerequisite: Written permission from instructor.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

GERO 43092 PRACTICUM IN NURSING HOME ADMINISTRATION I

Internship in nursing home care facility.

One, 3 hour, on-campus seminar every three weeks (meets five times). Weekly one hour online lectures and discussions also take place. A minimum of 28 clock hours per week at internship site is required.

Prerequisite: human development and family studies (HDFS) majors and senior standing.

6.000 Credit hours

2.000 Lecture hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Practicum

Department: Lifespan Development and Educational Sciences

GERO 43192 PRACTICUM IN NURSING HOME ADMINISTRATION II

Internship in nursing home care facility.

One, 3 hour, on-campus seminar every three weeks (meets five times). One hour online lectures and discussions are held each week. A minimum of 28 clock hours per week is required. Prerequisite: human development and family studies (HDFS) major and senior standing.

6.000 Credit hours

2.000 Lecture hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Practicum
Department: Lifespan Development and Educational Sciences

GERO 44030 ADULT DEVELOPMENT AND AGING

Examines developmental processes across adulthood. Evaluation of theoretical models and scientific literature. Prerequisite: Human development and family studies (HDFS) majors.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

Course Attributes: Writing Intensive Course

GERO 44031 SOCIAL POLICY AND COMMUNITY RESOURCES FOR OLDER ADULTS

Overview of national, state and local public policy affecting older adults. Legislation, funding, planning and the service delivery system are examined. Prerequisite: GERO 44030.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

GERO 44032 LONG TERM CARE ADMINISTRATION

Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options. Prerequisites: nursing (NURS), human development and family studies (HDFS), integrated life science (ILS) or integrated health science (IHS) majors; junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

GERO 44092 PRACTICUM IN GERONTOLOGY

(repeatable for a total of 6 credit hours.) Observation and participation in long-term care or community agencies serving older adults. One class discussion per week.

Major GPA of 2.50 required. Prerequisite: HDFS 44018; human development and family studies (HDFS) majors and senior standing.

3.000 OR 6.000 Credit hours

1.000 Lecture hours

2.000 OR 5.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

GERO 51093 VARIABLE TITLE WORKSHOP IN GERONTOLOGY

Workshop setting dealing with a topic or topics in the field of gerontology. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

GERO 51095 SPECIAL TOPICS IN GERONTOLOGY

Discussion of a major topic or topics within the field of gerontology. Prerequisite: Graduate standing.

1.000 TO 4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

GERO 51096 INDIVIDUAL INVESTIGATION IN GERONTOLOGY

Independent study in the area of gerontology. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

GERO 54030 ADULT DEVELOPMENT AND AGING

Examines developmental processes across adulthood. Evaluation of theoretical models and scientific literature. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

GERO 54032 LONG TERM CARE ADMINISTRATION

Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

GERO 54092 PRACTICUM IN GERONTOLOGY

Observation and participation in long-term care and community agencies serving older adults. Prerequisite: graduate standing.

3.000 TO 6.000 Credit hours

1.000 Lecture hours

2.000 TO 5.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

**GERO 61091 SEMINAR IN GERONTOLOGY**

Seminar dealing with topics in the field of gerontology. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

GERO 61191 INTERDISCIPLINARY SEMINARY IN GERONTOLOGY

Course is designed to assist students in developing the knowledge and skills needed to understand the major issues in gerontological theory, research and practice from a multi-disciplinary perspective.

Prerequisite: Graduate standing and special approval.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

GERO 64022 FAMILY LIFE IN THE LATER YEARS

Research on families in the later years is reviewed, with a particular emphasis on its utility to family life practitioners.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

Greek (GRE)**GRE 14201 ELEMENTARY CLASSICAL GREEK I**

An introduction to the classical Greek language in the context of ancient Greek culture. Prerequisite: None.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 14202 ELEMENTARY CLASSICAL GREEK II

A continuation of the introduction to the classical Greek language in the context of ancient Greek culture. Prerequisite: GRE 14201.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 14205 ELEMENTARY MODERN GREEK I

An introduction to the modern Greek language in the context of Greek culture. Prerequisite: None.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 14206 ELEMENTARY MODERN GREEK II

A continuation of the introduction to the modern Greek language in the context of Greek culture. Prerequisite: GRE 14205.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 24201 INTERMEDIATE CLASSICAL GREEK I: READINGS

Excerpts from classical Greek literature with emphasis on translation into English.

Prerequisite: GRE 14202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 24202 INTERMEDIATE CLASSICAL GREEK II: READINGS

Excerpts from classical Greek literature with emphasis on both prose (e.g. Plato) and poetry (e.g. Euripides). Prerequisite: GRE 24201.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 24208 INTERMEDIATE MODERN GREEK I

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: GRE 14206.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 24209 INTERMEDIATE MODERN GREEK II

Advanced readings in prose and poetry, emphasizing such 20th century demotic authors as Nikos Kazantzakis, Elias Venezis, George Seferis and Constantine Cavafy. Prerequisite: GRE 24208.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 34350 ADVANCED PROSE AUTHORS

Selections from major prose authors. Emphasis on Attic orators and the contributions of rhetoric; also readings from ancient Greek historians especially Thucydides. Prerequisite: GRE 24202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 34351 NEW TESTAMENT IN GREEK

Selected New Testament readings in the original language, including the Gospels and the letters of Paul. Prerequisite: GRE 24202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 34370 PLATO: APOLOGY AND PHAEDO

Readings in the original Greek of Plato's dialogues centering on the trial, conviction and death of Socrates. Prerequisite: GRE 24202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 34371 HOMER

Selections from the Iliad or Odyssey studied from a literary and grammatical standpoint. Prerequisite: GRE 24202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

GRE 40393 VARIABLE TITLE WORKSHOP

Workshops individually designed to provide instruction and training in specific areas of Greek studies. S u graded. Prerequisite: school permission.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Modern and Classical Language Studies

GRE 44096 INDIVIDUAL INVESTIGATION

Investigation of problems in Greek literature or linguistics. Prerequisite: Departmental permission.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Modern and Classical Language Studies

**GRE 44352 GREEK DRAMA**

Selections from Aeschylus, Sophocles or Euripides with discussion of Greek dramatic technique and influence. Prerequisite: GRE 24202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

GRE 50393 VARIABLE TITLE WORKSHOP IN GREEK

Variable topic offered as need arises to train in specific area of field. Prerequisite: Graduate standing and special approval.

2.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Modern and Classical

Language Studies

Human Development and Family Studies (HDFS)

HDFS 14027 INTRODUCTION TO HUMAN DEVELOPMENT AND FAMILY STUDIES

Introduction to human services related to human development and family studies, the career opportunities available and the skills required to succeed in the field.

Prerequisite: None.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

HDFS 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES

Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

Course Attributes: Diversity Course-Domestic

HDFS 24012 CHILD DEVELOPMENT

General development of the child from prenatal through middle childhood.

Prerequisite: HDFS 24011.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

HDFS 24013 EARLY ADOLESCENCE

Examines the fundamental transitions, social contexts and psychosocial processes involved in human development from ages 10 through 15. Implications for working with this age group within Departments, human services agencies and youth development programs. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

HDFS 24095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES

Discussion of a major topic within human development or family studies. Prerequisite: HDFS 24011.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

HDFS 25512 MANAGEMENT OF FAMILY RESOURCES

Management as applied to individuals, families and human service professionals.

Prerequisite: HDFS 24011.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

HDFS 34013 DEVELOPMENT IN INFANCY

Study of genetic influences, prenatal development and birth, and the developmental characteristics of the infant and toddler. Prerequisite: HDFS 14027 and HDFS 24012.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

HDFS 34031 CULTURAL DIVERSITY: IMPLICATIONS FOR THE HELPING PROFESSIONS

This class is designed to enhance the competence and success of students planning to work in human services. Learning how different cultural backgrounds influence the perceptions and behaviors of clients in the human service setting is emphasized. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

HDFS 41095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES

Discussion of a major topic within human development or family studies. Prerequisite: None.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

HDFS 41096 INDIVIDUAL INVESTIGATION

Independent study in human development and family studies. Prerequisite: Written special approval from instructor.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Lifespan Development and

Educational Sciences

HDFS 44018 PROFESSIONAL DEVELOPMENT IN HUMAN DEVELOPMENT/FAMILY STUDIES

Preparation of students for professional work experiences as well as providing an opportunity to discuss recent developments in the fields of human development, family studies and gerontology. Prerequisite: Human development and family studies (HDFS) majors and senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and

Educational Sciences

HDFS 44019 INTERGENERATIONAL EXPERIENCES

Provides students with practical experience in working with older adults in a structured setting. The focus of activities is on enhancing the well-being of all participants and providing information in the areas of health, fitness and other areas of well-being as well as community resources for older adults. Students apply information about adult development to the older participants or members via a case study. Moreover, both the students and older adults will become more knowledgeable about the characteristics of each age group and their respective cultures and achieve a comfort level that promotes intergenerational experiences. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: none.

3.000 Credit hours

1.750 Lecture hours

2.500 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture



Department: Lifespan Development and Educational Sciences

HDFS 44020 ADOLESCENT DEVELOPMENT

Study of adolescent development with emphasis on forces related to adolescent behavior in the family and society. Evaluation of current research. Prerequisite: Human development and family studies (HDFS) majors. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44021 FAMILY INTERVENTION ACROSS THE LIFESPAN

Evaluation of research and theoretical models in the area of family intervention. Focus on strategies for assisting families in coping with a variety of critical issues over the family life cycle. Prerequisite: Human development and family studies (HDFS) majors. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44022 CHANGING ROLES OF MEN AND WOMEN

A study of roles of men and women, past, present and future. Prerequisite: None. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44023 BUILDING FAMILY STRENGTHS

The Building Family Strengths Model builds upon family life potential; based on extensive research emphasizing identified family strengths. Prerequisite: Human development and family studies (HDFS) majors. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44028 PARENT-CHILD RELATIONSHIPS

Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research. Prerequisite: Human development and family studies (HDFS) majors. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 44029 FAMILY POLICY

Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making. Prerequisite: GERO 44030. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44030 FAMILY LIFE EDUCATION METHODOLOGY

Developing teaching methods and techniques for family life education and the study of family life education content areas. Prerequisite: GERO 44030. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44031 INTERGENERATIONAL FAMILY CAREGIVING

Intergenerational concerns of family caregivers across the lifespan, coping resources, formal and informal support systems. Prerequisite: none. 2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44032 NONPROFIT FUNDRAISING AND GRANTWRITING

Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human service agencies. Prerequisite: None. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44033 NONPROFIT MANAGEMENT I

An overview of nonprofit/human service organizations, including how to start and manage one, leadership, ethics, program development, service learning, board development, budgeting, legal aspects, advocacy and lobby, mission and vision, and fundraising. Prerequisite: None. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44034 NONPROFIT MANAGEMENT II

An overview of nonprofit/human service organizations, including conflict resolution, human resource management, risk management, marketing, ethics, leadership, intercultural sensitivity and social entrepreneurship. Prerequisite: None. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44035 ASSESSMENT AND STRATEGIES IN CASE MANAGEMENT

An examination of the evaluation of client needs and assessment of client condition. Course emphasizes interviewing as a major assessment strategy. Corequisites: HDFS 44192 and junior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44036 GENERAL CASE MANAGEMENT METHODS

Examination of case management processes and strategies, with focus on community resources to meet client needs in the human service setting. Prerequisite: HDFS 44035 and junior standing. Corequisite: HDFS 44292. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

HDFS 44037 POSITIVE YOUTH DEVELOPMENT

Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn healthy behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed. Prerequisite: HDFS 44020. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences



HDFS 44038 PROFESSIONAL CHILD AND YOUTH WORK PRACTICE

Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice, emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, cultural and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based and out-of-home care settings as well as work with various child and youth populations are explored. Prerequisites: HDFS 34031 and 44035 and 44037; and HED 34060; and human development and family studies (HDFS) majors.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 44039 BERREAVEMENT, TRAUMA AND OTHER LOSSES

Exploration of the impact of death, trauma and other losses on individuals and families across the lifespan. Consideration of gender, social and cultural context. Implications for human services professionals. Prerequisite: HDFS 24011.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 44092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES

Observation and participation in child, family and social service agencies. One class discussion per week. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned school agency before the first day of the semester in which student teaching internship will take place. Major GPA of 2.50 is required. Prerequisite: HDFS 44018; and human development and family studies major (HDFS); and senior standing; and special approval.

3.000 TO 6.000 Credit hours

1.000 Lecture hours

14.000 TO 35.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

HDFS 44192 INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT I

Supervised field experience in a human service agency. Joint university-agency supervision. Corequisite: HDFS 44035 and junior standing.

3.000 TO 6.000 Credit hours

3.000 TO 6.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

HDFS 44292 INTERNSHIP IN HUMAN DEVELOPMENT AND FAMILY STUDIES-CASE MANAGEMENT II

Continued supervised field experience in a human service agency. Joint university-agency supervision. Prerequisite: HDFS 44192 and junior standing. Corequisite: HDFS 44036.

3.000 TO 6.000 Credit hours

9.000 TO 18.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

HDFS 51093 VARIABLE TITLE WORKSHOP IN HUMAN DEVELOPMENT AND FAMILY STUDIES

Workshop setting dealing with a topic or topics in human development and family studies. Learning experiences are provided in a wide range of areas. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

HDFS 51095 SPECIAL TOPICS IN HUMAN DEVELOPMENT AND FAMILY STUDIES

Discussion of a major topic within human development and family studies.

Prerequisite: graduate standing.

1.000 TO 4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 51096 INDIVIDUAL INVESTIGATION

Independent study in human development and/or family studies. Prerequisite:

Graduate standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

HDFS 54019 INTERGENERATIONAL EXPERIENCES

Provides students with practical experience in working with older adults in a structured setting. The focus of activities is on enhancing the well-being of all participants and providing information in the areas of health, fitness and other areas of well-being as well as community resources for older adults. Students apply information about adult development to the older participants or members via a case study. Moreover, both the students and older adults will

become more knowledgeable about the characteristics of each age group and their respective cultures and achieve a comfort level that promotes intergenerational experiences. Prerequisite: graduate standing.

3.000 Credit hours

2.500 Lecture hours

1.750 Lab hours

Level: Graduate

Schedule Types: Laboratory, Lecture

Department: Lifespan Development and Educational Sciences

HDFS 54020 ADOLESCENT DEVELOPMENT

Adolescent development with emphasis on forces related to adolescent behavior. Evaluation of current research.

Prerequisite: Human Development and Family Studies (HDFS) major and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 54021 FAMILY INTERVENTION ACROSS THE LIFE SPAN

Evaluation of research and theoretical models in the area of family intervention. Focus on strategies for assisting families in coping with a variety of critical issues over the family life cycle. Prerequisite: Human Development and Family Studies (HDFS) major and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 54023 BUILDING FAMILY STRENGTHS

The building family strengths model builds upon family life potential, based on extensive research emphasizing identified family strengths. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 54028 PARENT-CHILD RELATIONSHIPS

Study of parent-child relationships across the life span and within various contexts. Emphasis on the process of socialization and determinants of parent-child relationships based on current research. Prerequisite: Human Development and Family Studies (HDFS) major and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Lifespan Development and Educational Sciences

HDFS 54029 FAMILY POLICY

Understanding federal, state and local policy issues affecting families. Role of family life educator in promoting a family-friendly perspective in policy making. Prerequisite: Human Development and Family Studies (HDFS) major and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 54031 INTERGEN FAMILY CAREGIVING

Intergenerational concerns of family caregivers across the lifespan, coping resources, formal and informal support systems. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 54037 POSITIVE YOUTH DEVELOPMENT

Examines individual, family, school and community characteristics that comprise developmental assets contributing to positive youth development (PYD). Definitions and descriptions of PYD approaches are examined as well as evaluations of program effectiveness. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn health behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed. Students complete a program development project. Prerequisite: HDFS 54020 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 54038 PROFESSIONAL CHILD AND YOUTH WORK PRACTICE

Provides students with an understanding of the historical and current methodologies and organizational structures of professional child and youth work practice emphasizing a synthesis of previous and new learning regarding five domains of competence (professionalism, culture and human diversity, applied human development, relationship and communication and developmental practice methods). Practice issues in community-based an out of home care settings as well as work with various child and youth

populations are to be explored. Students complete a program development and evaluation project. Prerequisite: HDFS major, graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 54039 BEREAVEMENT, TRAUMA AND OTHER LOSSES

Exploration of the impact of death, trauma and other losses on individuals and families across the lifespan. Consideration of gender, social and cultural context. Implications for human services professionals. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 54092 PRACTICUM IN HUMAN DEVELOPMENT AND FAMILY STUDIES

Observation and participation in child, family and human service agencies. Prerequisite: Human Development and Family Studies (HDFS) major and graduate standing.

3.000 TO 6.000 Credit hours

1.000 Lecture hours

2.000 TO 5.000 Other hours

Level: Graduate

Schedule Types: Lecture, Practicum

Department: Lifespan Development and Educational Sciences

HDFS 55514 THE CONSUMER FAMILY IN TODAY'S SOCIETY

Study of current and future role of consumer families relevant to consumption, alternatives and priorities. Prerequisite: Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 61018 TECHNIQUES OF RESEARCH IN FAMILY AND CONSUMER STUDIES

Introduction to the types of research and methods of data collection applied to a project of student's choice. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 61091 SEMINAR

Evaluation and interpretation of recent literature in human development and/or family studies. Topic selected for semester

will be indicated in the schedule of classes. Prerequisite: Graduate standing.

2.000 OR 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

HDFS 61098 RESEARCH

Research for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Repeat registration permitted. Prerequisite: Graduate standing.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences

HDFS 61198 MASTER'S PROJECT

Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Special approval and graduate standing.

2.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

HDFS 61199 THESIS I

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Special approval and graduate standing.

2.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Lifespan Development and Educational Sciences

HDFS 61299 THESIS II

Thesis II students must continue registration each semester until all degree requirements are met. Prerequisites: HDFS 61199 and graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Lifespan Development and Educational Sciences

HDFS 64022 FAMILY LIFE IN THE LATER YEARS

Research on families in the later years is reviewed, with a particular emphasis on its utility to family life practitioners.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences



HDFS 64023 FAMILY THEORIES AND PROCESSES

An examination of theories and research for understanding family dynamics and changes in families across the lifespan. Includes attention to diverse family structures, dyadic and group processes applicable to families, and social and cultural contexts. Prerequisites: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 64024 FAMILY LIFE EDUCATION

Developing community acceptance, teaching aids and techniques and curriculum for family life education.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 64025 STUDIES IN CHILD REARING

Review and critical analysis of selected child-rearing studies in contemporary American society. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 64027 EARLY ADOLESCENCE

Examines the fundamental changes, social contexts and psychosocial processes involved in human development from ages eight through 15. Implications for working with this age group within Departments and human service agencies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 65516 FAMILY RESOURCE MANAGEMENT

Examines resource and financial management across the lifecycle. Prerequisite: Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

HDFS 65517 WORK AND FAMILY

Impact on family roles, life stage planning, career decisions and support systems. Responses and trends of public policy and

corporate actions. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

Hebrew (HEBR)

HEBR 12101 ELEMENTARY HEBREW I

An introduction to the modern Hebrew language in the context of Israeli culture.

Prerequisite: None.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

HEBR 12102 ELEMENTARY HEBREW II

A continuation of the introduction to the modern Hebrew language in the context of Israeli culture. Prerequisite: HEBR 12101.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

HEBR 22104 INTERMEDIATE HEBREW I

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: HEBR 12102.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

HEBR 22105 INTERMEDIATE HEBREW II

Continuation of HEBR 22104. Prerequisite: HEBR 22104.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

Health Education (HED)

HED 11570 PERSONAL HEALTH

This course examines the leading causes of death and disability in the United States with an emphasis on the application of knowledge and skills to reduce risk and enhance the quality of life. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 11590 COMMUNITY HEALTH EDUCATION

Identification of community health problems and measures for control. Emphasizes principles, objectives and methods of community health education. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 13510 WINNING COMBINATION: HEALTH AND ATHLETES

An exploration of strategies for promoting healthy lifestyles for athletes. The course is reserved for varsity athletes. Prerequisite: Special approval.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 14020 MEDICAL TERMINOLOGY

Identification of the meaning of various roots and terms and combining forms that are components of medical words, including anatomical physiological and pathological therapeutic terminology and implications for health literacy. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 20000 HEALTH EDUCATION FOR EARLY CHILDHOOD EDUCATORS

Investigate current health issues relevant to children in preschool environments/primary grades, and identify educational strategies to increase student health knowledge, foster positive health attitudes and promote healthy behaviors. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 21030 INTRODUCTION TO HEALTH EDUCATION

This course introduces the student to the health education profession. Roles and responsibilities of health educators in a variety of occupational settings are described. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 21050 HEALTH EDUCATION THEORIES

Application of various attitude and behavior models to health and illness behavior in order to develop a framework for educational intervention. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate



Schedule Types: Lecture
Department: Health Sciences

HED 32530 DRUG USE AND MISUSE

Introduction to the study of drug/alcohol abuse. Basic pharmacology of drug actions is reviewed. Common myths misconceptions about drug/alcohol use are examined. Current drug problems and related prevention treatment issues are analyzed. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

HED 32542 METHODS AND APPLICATIONS OF HEALTH EDUCATION

Analysis observation, demonstration and experience in the teaching-learning process utilizing methods, materials and resources appropriate to the preparation of professional health educators. This course includes 50 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisites: HED 11570 and HED 11590.

5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences
Course Attributes: Writing Intensive Course

HED 32544 HUMAN SEXUALITY

A study of the role and meaning of human sexuality throughout the life cycle for self and society. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

HED 32565 MARKETING IN HEALTH EDUCATION

Examines the basic elements of marketing processes as they relate to promoting health in communities. Emphasis on application of marketing planning, concepts and practices for service providers involved with health education. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

HED 32575 CONSUMER HEALTH

An overview of the health marketplace including health products, services, financing, promotional practices and consumer protection laws. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Health Sciences

HED 34050 PROGRAM PLANNING AND EVALUATION IN HEALTH EDUCATION

Provides students with the knowledge and skills to assess health resources and needs, develop health programs to meet specific needs in particular populations and determine appropriate measures to evaluate the effectiveness of health programs. Prerequisite: HED 11590 and HED 32542.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

HED 34060 SMALL GROUP PROCESSES

Group processes in human relationships, including techniques of democratic leadership and effective group membership. This course includes 25 field/clinical hours. Prerequisite: None.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

HED 36048 EMERGENCY MEDICAL TRAINING

Basic immediate care procedures for victims of acute illnesses and accidents. Course does not conform to EMT-B National Standard Curriculum as adopted by the Ohio school of Public Safety, Division of EMS. Prerequisite: None.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

HED 40093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION

Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop. Prerequisite: HED 11590 and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Health Sciences

HED 42041 HEALTH COUNSELING

Techniques of counseling applied to health education. Individual and group approaches relative to personal, family and societal health issues. This course includes 20 field/clinical hours. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

HED 42358 STUDENT TEACHING IN HEALTH EDUCATION

Provides a twelve week student teaching experience. See student teaching section of catalog. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Eligibility for admission to student teaching and admission to advanced study.
9.000 Credit hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Health Sciences

HED 42575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS

Focus on health
issues/education/environment policy and practice/community strategies to respond to threats confronting students utilizing a coordinated Department/community strategy to promote health to improve academic outcomes. CPR and first aid certification required for completion of course. Prerequisite: Admission to advanced study.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

HED 44025 WOMEN'S HEALTH ISSUES

Traditional and feminist analysis of women's health issues and the health educational responses to those issues. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

HED 44092 INTERNSHIP IN COMMUNITY HEALTH EDUCATION

Participation for one academic semester in the health education activities of an approved agency, organization or industry. Prerequisite: Senior standing.
12.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Health Sciences

HED 44095 SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION

Selected topics related to public health issues facing professionals in communities, Departments, health care settings and the worksite. Prerequisite: None.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences



HED 44096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION

Independent reading and/or research directed by a HED faculty member.

Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Health Sciences

HED 44543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS

Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course. Prerequisite: Admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 44544 SEXUALITY EDUCATION PROGRAMS

This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings. Prerequisite: HED 32544.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 44550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS

Drug abuse and violence prevention from theoretical, philosophical, empirical and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs. Prerequisite: HED 32530.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 46052 STRESS: RECOGNITION AND MANAGEMENT

An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress. Prerequisite: None.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 46057 ADVANCED HUMAN SEXUALITY

Selected aspects of human sexuality; history, cross-cultural perspectives,

medical/surgical conditions and sex therapy and counseling. Prerequisite: HED 32544.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 46060 DEATH EDUCATION

Issues of living with the human experiences of death and facilitating understanding with selected client systems in Departments and community agencies. Prerequisite: HED 11570 and PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 46070 HEALTH RELATED ASPECTS OF AGING

Theories of biological aging and identification of major health hazards, age-related diseases and age changes, their prevention and control. The health care delivery system for the elderly. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 47070 AIDS: ISSUES, EDUCATION AND PREVENTION

This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to aids education and prevention issues and strategies. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

HED 47091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION

Public health issues facing professionals in communities, Departments, health care settings and the worksite. Prerequisite: Junior or senior standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Health Sciences

HED 48092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION

Observation and participation in educational and promotional activities of a public health agency, school or health care facility. Joint university agency supervision. Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Health Sciences

HED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE

Interdisciplinary inquiry into teaching as a professional practice in health education; emphasis on teacher as disciplined investigator. Final semester of four.

Utilization of teaching/learning technology. Prerequisite: admission to advanced study.

Corequisite: HED 42358.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Health Sciences

HED 50093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION

Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Health Sciences

HED 52041 HEALTH COUNSELING

Techniques of counseling applied to health education. Individual and group approaches relative to personal family and societal health issues. The course includes 20 field clinical hours. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 52575 HEALTH AND LEARNING: STRATEGIES FOR STUDENTS AND TEACHERS

Focus on health issues/education/environment policy and practice/community strategies to respond to threats confronting students, utilizing a coordinated school community strategy to promote health and improve academic outcomes. CPR first aid certification required for completion of course. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 54025 WOMEN'S HEALTH ISSUES

Traditional and feminist analysis of women's health issues and the health educational responses to those issues. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 54095 SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION

Selected topics related to public health issues facing professionals in communities,



Departments, health care settings and the worksite. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 54096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION

Independent reading and/or research directed by a graduate faculty member.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

Prerequisite: Graduate standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Health Sciences

HED 54543 ADMINISTRATION OF SCHOOL HEALTH PROGRAMS

Organizational design and administration of a comprehensive school health program including health services, instruction and environment. This course includes 25 field/clinical hours. CPR and first aid certification required for completion of course. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 54544 SEXUALITY EDUCATION PROGRAMS

This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 54550 DRUG ABUSE AND VIOLENCE EDUCATION PROGRAMS

Drug abuse and violence prevention from theoretical, philosophical, empirical, and practical perspectives. Application of theories to plan, implement, and evaluate drug and violence education programs. Prerequisites: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 56052 STRESS: RECOGNITION AND MANAGEMENT

An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress. Prerequisite: Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 56057 ADVANCED HUMAN SEXUALITY

Selected aspects of human sexuality: history, cross-cultural perspectives, medical/surgical therapy and counseling.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 56060 DEATH EDUCATION

Issues of living with the human experience of death and facilitating understanding with selected client systems in Departments and community agencies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 56070 HEALTH RELATED ASPECTS OF AGING

Theories of biological aging and identification of major health hazards, age-related diseases and age changes, their prevention and control. The health care delivery system for the elderly. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 57070 AIDS: ISSUES, EDUCATION AND PREVENTION

This course provides an extensive overview of the human immunodeficiency virus epidemic as it has developed and exists today. A particular emphasis will be given to AIDS education and prevention issues and strategies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 57091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION

Public health issues facing professionals in communities, Departments, health care settings and the worksite. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Health Sciences

HED 58092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION

Observation and participation in educational and promotional activities of a public health agency, Department, or health care facility joint university-agency supervision.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Field Experience

Department: Health Sciences

HED 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Health Sciences

HED 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: HED 60199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Health Sciences

HED 64010 RESOURCES AND TRAINING IN HEALTH EDUCATION AND PROMOTION

Focuses on locating, evaluating, and creating health education and promotion resources as well as gaining skills to enable the planning, facilitation, and evaluation of health promotion trainings. Students complete CITI training as a course competency. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 64030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION

Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics. Prerequisite: Graduate standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64050 HEALTH BEHAVIOR

Analysis of a broad range of theoretical and empirical models of health and illness behavior. Prerequisite: HED 64010 and HED 64061 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION

The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64055 NEEDS ASSESSMENT AND PROGRAM PLANNING IN HEALTH PROMOTION

Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs. Prerequisite: HED 64010 and HED 64061 and HED 64072 and HED 64050 and HED 64063 and HED 64059 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64057 EVALUATION OF HEALTH PROMOTION PROGRAMS

Reviews basic principles and types of evaluations. Students will develop an evaluation plan to determine effectiveness of program developed in HED 64055. Prerequisite: HED 64010 and HED 64050 and HED 64055 and HED 64061 and HED 64063 and HED 64072 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64058 DEVELOPMENTAL APPROACH TO CONTENT AND RESOURCES IN HEALTH EDUCATION

Focus on examination of six CDC problem priority areas through the lens of developmentally appropriate practice parameters for children and youth. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION

Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion. Prerequisites: HED 64010 and HED 64050 and HED 64061 and HED 64072 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64060 GRANT WRITING FOR HEALTH EDUCATION AND PROMOTION

Focuses on the development of basic grant writing skills for health educators, including the search for funding sources and proposal development. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION

Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/leadership, government initiatives, standards of practice and accreditations are examined. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64062 ADMINISTRATION OF HEALTH PROMOTION PROGRAMS

Basic concepts in the administration of health education/promotion programs. Coordination of program services, consultative relationships, management of human and fiscal resources and organizational leadership are addressed. Prerequisite: HED 64010 and HED 64061 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION

Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels. Prerequisite: Graduate standing.
3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64066 HEALTH IN THE DEVELOPING NATIONS

Overview of national development, review of problems, process and strategy of health development. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64070 WORKSITE HEALTH PROMOTION

Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION

Emphasizes the advocacy role of health educators. Includes use of research results to develop, analyze and influence health policy. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 64082 READINGS IN HEALTH EDUCATION AND PROMOTION

Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time. Prerequisite: Graduate standing and Health Education (HED) or Public Health (PH) major.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Health Sciences

HED 64084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS

A behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged. May include field projects, participation in health-related investigations and presentations and personal development programs. May be repeated. Prerequisite: Graduate standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

**HED 64091 SEMINAR IN HEALTH EDUCATION AND PROMOTION**

Selected topics of critical concern to prospective teachers, administrators and health professionals. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

HED 64094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION

Guided experiences in teaching selected undergraduate courses. Prerequisite: Graduate standing and special approval.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

HED 64098 PROJECT IN HEALTH EDUCATION AND PROMOTION

Research or individual investigation for master's level graduate students. Repeated registration permitted. Prerequisite: Grading standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Health Sciences

HED 70093 VARIABLE TITLE WORKSHOP IN HEALTH EDUCATION AND PROMOTION

Discussion of major issues in health and safety education. Content emphasis and prerequisites vary depending on workshop. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Health Sciences

HED 74095 SPECIAL TOPICS: HEALTH EDUCATION AND PROMOTION

Selected topics related to public health issues facing professionals in communities, Departments, health care settings and the worksite. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 74096 INDIVIDUAL INVESTIGATION IN HEALTH EDUCATION AND PROMOTION

Independent reading and/or research directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

Prerequisite: Doctoral standing; special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Health Sciences

HED 77091 CURRENT ISSUES IN HEALTH EDUCATION AND PROMOTION

Public health issues facing professionals in communities, Departments, health care settings and the worksite. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

HED 78092 FIELD EXPERIENCE IN HEALTH EDUCATION AND PROMOTION

Observation and participation in educational and promotional activities of a public health agency, school or health care facility joint university-agency supervision. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing; special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Health Sciences

HED 80199 DISSERTATION I

Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours. Prerequisite: Doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Health Sciences

HED 80292 PRACTICUM IN HEALTH EDUCATION AND PROMOTION

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

HED 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met. Prerequisite: Doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Health Sciences

HED 81100 RESIDENCY SEMINAR: SYNTHESIS OF LITERATURE IN HEALTH EDUCATION AND PROMOTION

Exploration of philosophical, theoretical and empirical issues in health education and promotion. Students synthesize courses, research and practice in preparation for comprehensive examinations. Prerequisite: doctoral standing and special approval of instructor.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

HED 81150 SEMINAR: PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION AND PROMOTION

Focuses on the process, practice and documentation of professional development in health education and promotion in the areas of instruction, program development, research and evaluation. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 81200 RESIDENCY SEMINAR: RESEARCH PROPOSAL, DEVELOPMENT AND PRESENTATION

Review of the role of research and scholarly pursuits in the professorate, the professional health education literature, and in the development and dissemination of a range of scholarly products. Identification of requisite elements of a dissertation in health education and promotion. Refinement of a professional vita, updating of doctoral program prospectus, specification of dissertation topic, identification of potential dissertation committee members, development and presentation of draft dissertation proposal. Prerequisite: Doctoral standing and special approval of instructor.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

HED 81300 HEALTH EDUCATION PRACTICE

Investigation of various health education settings including analysis of agency programming efforts and comparison to evidence-based practice. Application of community assessment, socioecological model, and community-based participatory research principles. Analysis of how health education theory and research are implemented in various practice settings. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences



HED 81400 RESEARCH DISSEMINATION AND TECHNICAL WRITING IN HEALTH EDUCATION AND PROMOTION

Examination and practice of technical writing for research proposals, technical reports, and journal publications in health education and promotion. Other methods of disseminating research such as preparation and submission of conference presentation applications and writing as part of consultative relationships with community agencies is explored. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 81450 ADVANCED PROGRAM EVALUATION IN HEALTH EDUCATION AND PROMOTION

A review of evaluation methods used in health education programs. Emphasis is placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of the results. Prerequisite: HED 64055 or HED 74055; and HED 64057 or HED 74057; and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 81550 APPLIED THEORY IN HEALTH EDUCATION RESEARCH AND PRACTICE

Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs. Prerequisite: HED 6/74050.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84010 RESOURCES AND TRAINING IN HEALTH EDUCATION AND PROMOTION

Focuses on locating, evaluating and creating health education and promotion resources as well as gaining skills to enable the planning, facilitation and evaluation of health promotion trainings. Students complete CITI training as a course competency. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84030 INTRODUCTION TO RESEARCH AND DATA ANALYSIS IN HEALTH EDUCATION AND PROMOTION

Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of

descriptive and inferential statistics.

Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84050 HEALTH BEHAVIOR

Analysis of a broad range of theoretical and empirical models of health and illness behavior. Prerequisite: HED 64010; and HED 64061 or 84061 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84051 BIOBEHAVIORAL ASPECTS OF DISEASE PREVENTION IN HEALTH EDUCATION AND PROMOTION

The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention, health promotion and behavioral intervention. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84055 NEEDS ASSESS AND PROG/PLAN

Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs. Prerequisite: HED 64010; and HED 64050 or 84050; and HED 64059 or 84059; and HED 64061 or 84061; and HED 64063 or 84063; and HED 64072; and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84057 EVALUATION OF HEALTH PROMOTION PROGRAMS

Reviews basic principles and types of evaluations. Students will develop an evaluation plan to determine effectiveness of program developed in HED 6/84055. Prerequisite: HED 64010; and HED 64050 or 84050; and HED 64055 or 84055; and HED 64061 or 84061; and HED 64063 or 84063; and HED 64072; and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84058 DEVELOPMENTAL APPROACH TO CONTENT AND RESOURCES IN HEALTH EDUCATION

Focus on examination of six CDC problem priority areas through the lens of developmentally appropriate practice parameters for children and youth. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84059 COMMUNICATION AND MARKETING IN HEALTH EDUCATION AND PROMOTION

Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion. Prerequisites: HED 64010; and HED 64050 or 84050; and HED 64061 or 84061; and HED 64072 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84060 GRANT WRITING FOR HEALTH EDUCATION AND PROMOTION

Focuses on the development of basic grant writing skills for health educators, including the search for funding sources and proposal development. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84061 FOUNDATIONS OF HEALTH EDUCATION AND PROMOTION

Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/ leadership, government initiatives, standards of practice and accreditations are examined. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

HED 84062 ADMINISTRATION OF HEALTH PROMOTION PROGRAMS

Basic concepts in the administration of health education/promotion programs. Coordination of program services, consultative relationships management of human and fiscal resources and organizational leadership are addressed. Prerequisite: HED 64010; and HED 64061 or 84061; and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

**HED 84063 STRATEGIES IN HEALTH EDUCATION AND PROMOTION**

Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 84066 HEALTH IN THE DEVELOPING NATIONS

Overview of national development, review of problems process and strategy of health development. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 84070 WORKSITE HEALTH PROMOTION

Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 84080 ADVOCACY AND POLICY ISSUES IN HEALTH EDUCATION AND PROMOTION

Emphasizes the advocacy role of health educators. Includes use of research results to develop analyze and influence health policy. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 84082 READINGS IN HEALTH EDUCATION AND PROMOTION

Independent study of approved topics in health and safety education related to the student's special interests. Adviser's permission required to repeat registration one time. Prerequisite: doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Health Sciences

HED 84084 BEHAVIORAL SCIENCE IN THE HEALTH PROFESSIONS

A behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged. May include field projects participation in health related investigations and presentations and personal development programs. Prerequisite: doctoral standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

HED 84091 SEMINAR IN HEALTH EDUCATION AND PROMOTION

Selected topics of critical concern to prospective teachers, administrators and health professionals. Prerequisite: doctoral standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Health Sciences

HED 84094 COLLEGE TEACHING OF HEALTH EDUCATION AND PROMOTION

Guided experiences in teaching selected undergraduate courses. Prerequisite: doctoral standing and special approval.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Health Sciences

HED 84098 PROJECT IN HEALTH EDUCATION AND PROMOTION

Research or individual investigation for doctoral level graduate students. Repeated registration permitted. Prerequisite: doctoral standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Health Sciences

Higher Education (HIED)

HIED 66492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION

Field-based internship requiring a separate project as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Prerequisite: graduate standing.

3.000 TO 6.000 Credit hours

3.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

HIED 66521 EMPLOYMENT LAW

Study of public and private sector bargaining law and all terms and conditions of employment. Prerequisites: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66594 INTERNSHIP IN COLLEGE TEACHING

Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis. Prerequisite: Graduate standing and at least 12 hours in higher education.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

HIED 66595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION

Specialized offerings in response to emerging or selected program needs. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION

Projects as assigned. Prerequisite: graduate standing and special approval.

2.000 TO 4.000 Credit hours

2.000 TO 4.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Foundations, Leadership and Administration

HIED 66598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION

Projects as assigned. Prerequisite: graduate standing and special approval.

2.000 TO 8.000 Credit hours

2.000 TO 8.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Foundations, Leadership and Administration

HIED 66600 HISTORY OF HIGHER EDUCATION

Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American higher education from the seventeenth through the 20th century.

Students explore changes in student body curricula and purposes of higher education in the U.S. in the context of American culture. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66601 THE PRIVATE LIBERAL ARTS COLLEGE

Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common



themes and challenges across institutions as well as the nature of specific examples of institutions. Prerequisite: major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) or special approval from the instructor and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66650 ORGANIZATION AND ADMINISTRATION OF HIGHER EDUCATION

Provides students with an understanding of organization and structure of institutions of higher education. Content includes study of academic administration and academic advising. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION

Study of the history, philosophy, practices and organization of student affairs functions in higher education. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66652 LAW AND HIGHER EDUCATION

Provides for the examination of major legal aspects of the administration of institutions of higher learning. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE

Study of theories concerning the development of college students and other adults, and principles for translating theory into practice. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66654 STUDENTS AND THE COLLEGE ENVIRONMENT

Study of the impact of different types of students and college environments on each

other, within the context of a changing society. Prerequisite: HIED 6/76653 and special approval of instructor and graduate standing.

3.000 Credit hours

6.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION

Study of management responsibilities and leadership issues of student affairs administrators. Prerequisite: HIED 66652 and 66653 and 66657 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66656 HIGHER EDUCATION CURRICULUM

Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher education curriculum. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66657 LEADERSHIP IN EDUCATION ORGANIZATIONS

By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness. Prerequisites: major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66658 THE COMMUNITY COLLEGE

A study of the foundations, structure, programs and issues of community college education in the United States. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66660 FACULTY ROLES AND RESPONSIBILITIES

A study of faculty roles and responsibilities in American higher education. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66662 POLITICS AND POWER IN ORGANIZATIONS

This course is designed to provide a conceptual framework for understanding the multifaceted processes of policy making that take place in both "internal" and "external" settings. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION

This course is designed to provide students of higher education with the knowledge of financial issues, sources of funds, economics of education, financial roles of professional and academic administrators, and the financial management skills as applicable to institutions of higher education. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION

This course introduces students to the administrative and business management of institutions of higher education. The course covers topics such as institutional planning, space management, insurance matters, personnel administration, purchasing and facility management. Prerequisite: HIED 6/76657 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66668 THE ADMINISTRATION OF DISTANCE AND CONTINUING EDUCATION PROGRAMS IN HIGHER EDUCATION

Develop practical skills for leading continuing and distance education programs as educational institutions seek to meet the needs of students in an era of lifelong learning. Includes planning managing budgeting and marketing in an academic environment. Prerequisites:



major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HIED 66669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION

Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HIED 66670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS

Students study the historical and current development of the internationalization of higher education institutions; explore higher education administrative leadership characteristics, social/political/economic factors, and national and international relationships that have affected various countries and regions; and examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HIED 66671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION

Course covers racial/ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective, providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; curriculum and pedagogy matters; research issues; law and policy issues; and strategic planning for institution diversity in higher education. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES

Bridging theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HIED 66673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION

Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad will be thoroughly discussed. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HIED 66674 COMPARATIVE HIGHER EDUCATION

Students learn the differences between comparative, international and cross-border education. They reflect on how the United States higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HIED 66675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS

Participants examine the many critical aspects of designing, planning and implementing an education abroad program; analyze its components, and, with others, design a new program. Students also consider the institutional contexts in

which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities, safety issues and more. Students also develop skills in conducting needs assessments and program evaluations. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HIED 66676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS

Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning, particularly in higher education contexts, are reviewed, with implications for program design in education abroad, work with international students, and other international education contexts, as relevant. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HIED 66677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES

Within the context of social, economic, and technology shifts, this course examines the role of the community college in workforce, economic and community development. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HIED 66678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION

Addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration



HIED 66733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS

Participants work in task groups learning about interpersonal, group and inter-group dynamics in organizations through lectures, discussions and analysis of their in group experiences. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66740 THEORIES AND METHODS OF ORGANIZATIONAL DEVELOPMENT

(Cross-listed with CHDS 67840) Study of theorists/practitioners in organization development. Involves exploration of consultant roles, intervention theory, methods of systems change applied to groups and organizations. Cross listed with CHDS 678403. Prerequisite: graduate standing and major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 66749 ASSESSMENT AND EVALUATION IN HIGHER EDUCATION

This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. Topics will span from individual classroom assessment through institutional accreditation processes. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76492 INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION

Field-based internship requiring a separate project as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. Prerequisite: doctoral standing.

3.000 TO 6.000 Credit hours

3.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

HIED 76521 EMPLOYMENT LAW

Study of public and private sector bargaining law and all terms of employment. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE). Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76594 INTERNSHIP IN COLLEGE TEACHING

Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis. Prerequisite: Doctoral standing and at least 12 hours in higher education.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

HIED 76595 SPECIAL TOPICS IN HIGHER EDUCATION ADMINISTRATION

Specialized offerings in response to emerging or selected program needs.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76596 INDIVIDUAL INVESTIGATION IN HIGHER EDUCATION ADMINISTRATION

Projects as assigned. Prerequisites: doctoral standing and special approval.

2.000 TO 4.000 Credit hours

2.000 TO 4.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Foundations, Leadership and Administration

HIED 76598 RESEARCH IN HIGHER EDUCATION ADMINISTRATION

Projects as assigned. Prerequisites: doctoral standing and special approval.

2.000 TO 8.000 Credit hours

2.000 TO 8.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Foundations, Leadership and Administration

HIED 76600 HISTORY OF HIGHER EDUCATION

Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents but focuses largely on American higher education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76601 THE PRIVATE LIBERAL ARTS COLLEGE

Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions as well as the nature of specific examples of institutions. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) or special approval from the instructor. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76650 ORGANIZATION AND ADMINISTRATION OF HIGHER EDUCATION

Provides students with an understanding of organization and structure of institutions of higher education. Content includes study of academic administration and academic advising. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76651 STUDENT AFFAIRS FUNCTIONS IN HIGHER EDUCATION

Study of the history, philosophy, practices and organization of student affairs functions in higher education. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76652 LAW AND HIGHER EDUCATION

Provides for the examination of major legal aspects of the administration of institutions of higher learning. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76653 COLLEGE STUDENT DEVELOPMENT: THEORY AND PRACTICE

Study of theories concerning the development of college students and other adults, and principles for translating theory into practice. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

**HIED 76654 STUDENTS AND THE COLLEGE ENVIRONMENT**

Study of the impact of different types of students and college environments on each other, within the context of a changing society. Prerequisite: HIED 6/76653 and special approval of the instructor and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76655 CASE STUDIES IN HIGHER EDUCATION ADMINISTRATION

Study of management responsibilities and leadership issues of student affairs administrators. Prerequisite: HIED 76652 and 76653 and 76657 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76656 HIGHER EDUCATION CURRICULUM

Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher education curriculum. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76657 LEADERSHIP IN EDUCATION ORGANIZATIONS

By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) or special approval from the instructor. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76658 THE COMMUNITY COLLEGE

A study of the foundations, structure, programs and issues of community college education in the United States.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76660 FACULTY ROLES AND RESPONSIBILITIES

A study of faculty roles and responsibilities in American higher education. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76662 POLITICS AND POWER IN ORGANIZATIONS

This course is designed to provide a conceptual framework for understanding the multifaceted processes of policy making that take place in both "internal" and "external" settings. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76666 FINANCIAL MANAGEMENT IN HIGHER EDUCATION

This course is designed to provide students of higher education with the knowledge of financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76667 BUSINESS ADMINISTRATION IN HIGHER EDUCATION

This course introduces students to the administrative and business management of institutions of higher education. The course covers topics such as institutional planning, space management, insurance matters, personnel administration, purchasing and facility management. Prerequisite: HIED 6/76657 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76668 THE ADMINISTRATION OF DISTANCE AND CONTINUING EDUCATION PROGRAMS IN HIGHER EDUCATION

Develop practical skills for leading continuing and distance education programs as educational institutions seek to meet the needs of students in an era of

lifelong learning. Includes planning managing budgeting and marketing in an academic environment. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) or special approval from the instructor. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76669 ADMINISTRATION OF STUDENT DISABILITY SERVICES IN HIGHER EDUCATION

Understanding the legal and practical issues regarding the identification, accommodation and matriculation of students with disabilities into colleges and universities. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76670 INTERNATIONALIZATION OF HIGHER EDUCATION INSTITUTIONS

Students study the historical and current development of the internationalization of higher education institutions; explore higher education administrative leadership characteristics, social/political/economic factors, and national and international relationships that have affected various countries and regions; and examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76671 THE ADMINISTRATION OF MULTICULTURALISM AND DIVERSITY IN HIGHER EDUCATION

Course covers racial/ethnic and inclusive diversity and multiculturalism in U.S higher education settings. Diversity is discussed from a historical perspective providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; administrator and leadership issues; curriculum and pedagogy matters; research issues; law and policy issues and strategic planning for institutional diversity in higher education. Prerequisite: Doctoral standing.

3.000 Credit hours



3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76672 INTERNATIONAL STUDENTS AND AMERICAN COLLEGES

Bridging theory and application with an emphasis on the latter. The course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76673 RESEARCH IN ADMINISTRATION OF INTERNATIONAL HIGHER EDUCATION

Examines and analyzes research related to higher education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad will be thoroughly discussed. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) or special approval from the instructor. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76674 COMPARATIVE HIGHER EDUCATION

Students learn the differences between comparative, international and cross-border education. They reflect on how the United States higher education system grew out of specific historical, cultural and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76675 DESIGN AND DELIVERY OF EDUCATION ABROAD PROGRAMS

Participants examine the many critical aspects of designing, planning and implementing an education abroad program; analyze its components, and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third-party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities, safety issues and more. Students also develop skills in conducting needs assessments and program evaluations. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76676 INTERCULTURAL COMMUNICATION FOR INTERNATIONAL EDUCATORS

Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyze cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning, particularly in higher education contexts, are reviewed, with implications for program design in education abroad, work with international students, and other international education contexts, as relevant. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76677 WORKFORCE, ECONOMIC AND COMMUNITY DEVELOPMENT IN COMMUNITY COLLEGES

Within the context of social, economic, and technology shifts, this course examines the role of the community college in workforce, economic and community development. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76678 ISSUES AND TRENDS IN COMMUNITY COLLEGE ADMINISTRATION

Addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76733 INTERPERSONAL AND GROUP DYNAMICS IN EDUCATIONAL ORGANIZATIONS

Participants work in task groups learning about interpersonal, group and intergroup dynamics in organizations through lectures, discussions and analysis of their in-group experiences. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76740 THEORIES AND METHODS OF ORGANIZATIONAL DEVELOPMENT

Study of theorists/practitioners in organization development. Involves exploration of consultant roles intervention theory methods of systems change applied to groups and organizations. Cross listed with CHDS 77840. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) or special approval from the instructor doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 76749 ASSESSMENT AND EVALUATION IN HIGHER EDUCATION

This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. Topics will span from individual classroom assessment through institutional accreditation processes. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 80080 DISSERTATION PREPERATION SEMINAR

Gain an in-depth understanding of the dissertation writing process. Complete dissertation proposal. Prerequisites: doctoral standing and special approval.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Foundations, Leadership and Administration

**HIED 80085 LEGAL RESEARCH IN EDUCATION**

Methods of legal research, case analysis and a "uniform system of citation" are studied. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE). Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, the first of which is a semester in which dissertation work is begun and continuation of 30 hours. Prerequisites: doctoral standing and special approval.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Foundations, Leadership and Administration

HIED 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: HIED 80199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Foundations, Leadership and Administration

HIED 86521 ADVANCED EDUCATION LAW

This doctoral-level course is designed to provide the opportunity for students to gain additional knowledge in the education law area; to improve writing skills; to begin writing for publication; to critically review their own work, as well as work of others; and to defend their work before their peers. Prerequisite: HIED 6/76520 or HIED 6/76652 or HIED 6/76518; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HIED 86559 ADVANCED STUDENT AND ADULT DEVELOPMENT

Helps develop an in-depth understanding of one or more current theories of student or adult development. Students will gain additional knowledge in student development theory and theory creation. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE) or special approval of the instructor; HIED 6/76653, doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

History (HIST)**HIST 11050 HISTORY OF CIVILIZATION I**

(Equivalent to HONR 13197) World history from early human societies through the mid-17th century. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

Course Attributes: Diversity Course-Global, Kent Core-Humanities, Transfer Module-Humanities

HIST 11051 HISTORY OF CIVILIZATION II

(Equivalent to HONR 13297) Continuation of HIST 11050. World history from mid-17th century to the present. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

Course Attributes: Diversity Course-Global, Kent Core-Humanities, Transfer Module-Humanities

HIST 12070 HISTORY OF THE UNITED STATES:THE FORMATIVE PERIOD

(Equivalent to HONR 13397) A survey of United States history through 1877.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

Course Attributes: Diversity Course-Domestic, Kent Core-Humanities, Transfer Module-Humanities

HIST 12071 HISTORY OF THE UNITED STATES:THE MODERN PERIOD

(Equivalent to HONR 13497) A survey of United States history since 1877.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

Course Attributes: Diversity Course-Domestic, Kent Core-Humanities, Transfer Module-Humanities

HIST 31009 HISTORY OF BYZANTINE CIVILIZATION

The Byzantine empire and its culture from the foundation of Constantinople to the Turkish Conquest (A.D. 330-1453).

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

HIST 31024 WORLD WAR II

Survey of one of the greatest political and military events in history, focusing especially on causes, major personalities and chief political, ideological, moral, scientific and diplomatic aspects.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

HIST 31027 HISTORY OF ENGLAND TO 1688

Survey of medieval and early modern England. Topics include Norman Conquest, medieval culture and society, Reformation, Age of Elizabeth, English Revolution.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

HIST 31028 ENGLAND SINCE 1688

Survey of national development from the Glorious Revolution through the Second World War, with special attention to leaders, prominent individuals and problems of change. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

HIST 31029 HISTORY OF THE BRITISH EMPIRE AND COMMONWEALTH SINCE 1815

Survey of British colonialism and nation-building with an emphasis on Canada, Australia, Ireland, India and South Africa.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

HIST 31030 NATO:THE ENDURING ALLIANCE

Examination of the historical and contemporary roles of the North Atlantic Treaty Organization. Prerequisite: Junior standing or special approval of instructor.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

HIST 31050 HISTORY AND SOCIETY OF MODERN GREECE

Study of modern Greece concentrating on political, economic, cultural and societal developments since 1821. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History



HIST 31052 HISTORY OF MODERN FRANCE

Survey of French history from 1815 to the present. Topics include industrialization, republicanism and revolution, the experience of war and defeat, empire and decolonization. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31061 HISTORY OF OHIO

Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31070 HISTORY OF AMERICAN BUSINESS ENTERPRISE

An analysis of American business institutions, practices and leadership from the colonial period to the present. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31075 HISTORY OF WOMEN IN THE UNITED STATES

An exploration of the political, economic, social, intellectual, and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood, and feminism for 1607 to the present in what is now the United States. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31080 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM

Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31081 AFRICAN AMERICAN HISTORY: RECONSTRUCTION TO THE PRESENT

Survey of African American history from 1877 to the present. Course provides a general knowledge of the social, political and cultural history of African Americans from the end of the Reconstruction to the present. Prerequisite: HIST 31080 or PAS 33101.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: History

HIST 31112 CHINESE CIVILIZATION

General survey of evolution of Chinese civilization from the Bronze Age to the rise of communism. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31118 VIETNAM WAR

Study of the causes, evolution and effects of warfare in Vietnam from 1946 to 1975 with special attention to colonialism, nationalism, communism and American intervention. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31125 ZIONISM AND ISRAEL

Describes history of the Zionist movement from religious, ideological and political viewpoints and the relationship between Zionism and the state of Israel. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31126 HISTORY OF THE MIDDLE EAST

A survey of Islamic civilization in Middle Eastern context from the earliest days to the present. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31127 ANCIENT AND EARLY MEDIEVAL JEWISH HISTORY

Deals with the ancient and early medieval Jewish history from approximately 2000 B.C. to approximately 1200 A.D. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31128 LATE MEDIEVAL AND MODERN JEWISH HISTORY

Survey of Jewish history in Europe and the middle east from the age of the crusades to the 20th century. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31130 HISTORY OF AFRICAN CIVILIZATION

Survey of cultural, political, social and economic history of Africa from antiquity to European conquest. Emphasis on pre-colonial. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31140 MODERN LATIN AMERICA

Focuses on 20th-century Latin America and the efforts by social classes and their political leaderships to overcome obstacles of underdevelopment. Emphasis on Argentina, Brazil, Chile, Mexico, Cuba and Central America. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History
Course Attributes: Diversity Course-Global

HIST 31141 EARLY LATIN AMERICA

Examines Latin America from pre-colonial times to the late 19th century. Lectures emphasize political and economic questions while readings focus on social history. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 31143 THE AFRICAN-BRAZILIAN EXPERIENCE IN CULTURE AND LITERATURE

interdisciplinary approach to the study of the African-Brazilian experience, from the colonial period to the present, as reflected in selected literary, sociocultural and historical texts. Course taught in English. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History
Course Attributes: Diversity Course-Global

HIST 32050 THE HISTORIAN'S CRAFT

Introduction to the study and practice of historical writing including historical methods, historiography, primary and secondary source research, critical analysis of documentary sources, historical reasoning and the preparation of written reports. Emphasis on developing effective communication skills and research procedures, record-keeping, citation, and bibliography. Prepares students to do advanced work in history. Prerequisites: History major and 6 hours in history.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Lecture
Department: History
Course Attributes: Writing Intensive Course

**HIST 38095 SELECTED TOPICS IN HISTORY**

Special history course, varying in accordance with desire and competence of faculty. Precise title to be inserted in Schedule of Classes. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 38997 COLLOQUIUM IN HISTORY

Various philosophical and methodological approaches to the study of history are considered. Required for those seeking to graduate with honors in history.
Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: History

HIST 40092 INTERNSHIP IN HISTORY

Student internship at an institution related to the history major (e.g., historical society, museum, archives, historic preservation organization). Prerequisite: Junior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: History

HIST 40093 WORKSHOP IN HISTORY

Special workshop in history. Topic will vary according to professor. Prerequisite: None.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: History

HIST 40197 AMERICAN CULTURAL HERITAGE: THE ARTS AND SOCIETY

Examination of music, painting and literature in their cultural contexts during four periods of American history. American studies methodology and interdisciplinary thought. Prerequisite: Junior standing and one prior course in history.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: History

HIST 41000 INTRODUCTION TO PUBLIC HISTORY

A survey of public history including: archives, editing, museums and historical agency administration; historic preservation and related skill areas (e.g. artifact analysis, oral history). Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41003 HISTORY OF ANCIENT GREECE

Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41004 HELLENIC CONTRIBUTIONS TO WESTERN CIVILIZATION

Major intellectual and cultural achievements of the Greeks ca. 800-350 B.C.
Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41006 ROMAN HISTORY

A survey of Roman history from its beginnings to the fall of the Roman empire.
Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41010 THE EARLY MIDDLE AGES

Survey of major political, social and cultural developments of Europe from the fourth through 10th centuries. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41011 THE HIGH MIDDLE AGES

Survey of political, social and cultural developments of Europe from 11th through 13th centuries. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41014 EUROPE IN THE RENAISSANCE

Analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state.
Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41016 THE PROTESTANT AND CATHOLIC REFORMATIONS

Comprehensive course dealing with the religious, political, economic and social change accompanying the religious upheavals of the 16th century. Prerequisite: Junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41017 SEVENTEENTH-CENTURY EUROPE

This course will analyze those political, economic, social, religious and intellectual factors leading to economic crisis and civil wars in Europe. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41018 EIGHTEENTH-CENTURY EUROPE: AGE OF REVOLUTION

This course will analyze the many different factors and unresolved crises of the 17th century that led to revolution throughout Europe. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41020 NINETEENTH-CENTURY EUROPE

Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41024 MODERN EUROPEAN HISTORY, 1914-1945

Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41025 MODERN EUROPEAN HISTORY: 1945-PRESENT

Survey of European political, economic, social and cultural developments since 1945. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41026 TUDOR ENGLAND 1485-1603

Early modern England with emphasis on Renaissance, Reformation, social change and the Tudor monarchs, Henry VIII and Elizabeth. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41040 HISTORY OF GERMANY, 1648-1871

Focuses on the rise of Prussia, the cultural revival of the 18th century the impact of the French revolution and the process of unification. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41041 HISTORY OF GERMANY, 1871-PRESENT

Focuses on the impact of industrialization, the dilemma of the German left, the rise of Nazism and the emergence of two German states after 1945. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41044 IMPERIAL RUSSIA, 1689-1917

Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41045 MODERN RUSSIA, 1917-PRESENT

Focus on 1917 revolutions; Civil War; nationalities question; NEP, collectivization; Great Terror; World War II; Cold War; Soviet Foreign policy and culture; Perestroika and post-Soviet economic, political and ideological changes. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41049 HISTORY OF THE BALKANS:18TH CENTURY-1914

Survey of Albanians, Bulgarians, Greeks, Romanians and South Slavs under Ottoman domination and their struggles for national independence. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41050 HISTORY OF THE BALKANS:1914-PRESENT

The Balkans since 1914, including coverage of post-World War II period. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41051 POLITICS, CULTURE AND SOCIETY OF 20TH-CENTURY EUROPE

Political, social and cultural change in Europe during the twentieth century. Topics include violence, war, revolution, economic crises, and social and political changes. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41056 HISTORY OF COLONIAL AMERICA:1492-1714

Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History
Course Attributes: Diversity Course-Domestic

HIST 41057 EIGHTEENTH-CENTURY AMERICA:1714-1789

Cultural development of English colonies; Great War for Empire; American Revolution and Constitution. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History
Course Attributes: Diversity Course-Domestic

HIST 41058 JEFFERSON-JACKSON ERA, 1789-1848

Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41060 COMPARATIVE FASCISM

Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses. Prerequisite: junior standing.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41062 THE UNITED STATES:THE WESTWARD MOVEMENT

The process of settlement from its beginnings; consequences for American history. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41065 SECTIONAL CONFLICT AND CIVIL WAR

Differences within the United States, including the controversy over slavery; the Civil War in all its aspects. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41066 RECONSTRUCTION AND THE LATER SOUTH

Controversy during and after the Civil War as to racial and sectional relationships; the post- Reconstruction compromises and their undoing. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41070 AMERICAN SOCIAL AND INTELLECTUAL HISTORY 1790-1876

Major currents of the period: social background of the early republic; religious development; impact of the frontier, abolition. This course may be used to satisfy the university diversity requirement. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History
Course Attributes: Diversity Course-Domestic

HIST 41071 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876-PRESENT

Development of social Darwinism, racism, pragmatism, popular arts. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History
Course Attributes: Diversity Course-Domestic

HIST 41074 AMERICAN ECONOMIC HISTORY

Survey of growth and development of American economic and business life from



Colonial times to the present. Prerequisite: Junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41075 WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865

An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War. Prerequisite: HIST 12070.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41076 WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT

An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror. Prerequisite: HIST 12071.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41079 MIGRATIONS TO AMERICA, 1607 TO PRESENT

Examines the coming together of people from five continents to the United States and provides an overview of shifting patterns of migration both coerced and free to the United States. Starting in the colonial era, when slaves and servants typified the migration to America, this course then follows the migrations of pre-industrial, industrial, and post-industrial immigrants, their reception by American institutions and natives, and their efforts to construct communities in a new country. Prerequisite: junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41082 CONSTITUTIONAL HISTORY OF THE UNITED STATES

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41083 U.S. FOREIGN RELATIONS THROUGH WORLD WAR I

The evolution of U.S. foreign policy from its colonial origins through the Paris peace conference of 1919 with special emphasis

on the domestic roots of foreign policy. Prerequisite: Junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41084 U.S. FOREIGN RELATIONS FROM 1920

The history of U.S. foreign policy from the 1920s on with special emphasis on the evolving role of America as a world power. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41087 PROGRESSIVE AMERICA: THE UNITED STATES, 1896-1919

Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through the first World War. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41088 NEW ERA THROUGH WORLD WAR: THE UNITED STATES, 1920-1945

Major political, economic, social, cultural and diplomatic events from the new era of the 1920s through the second World War. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41089 RECENT AMERICA: THE UNITED STATES, 1945-PRESENT

Examines everyday life and culture, assesses the degree to which presidents and their administrations are the reflections of their constituencies, and evaluates the significant events and themes of U.S. history since 1945. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41097 COLLOQUIUM: SAINTS, MONKS, AND THE MEDIEVAL COMMUNITY

Investigates major religious institutions that shaped medieval European society and the impact on popular piety. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: History

HIST 41112 HISTORY OF MODERN CHINA

Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of communism. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41116 HISTORY OF JAPAN

General survey of the development of Japan from a loose confederation of clans to a modern industrial state. Prerequisite: junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41129 THE HOLOCAUST: THE DESTRUCTION OF EUROPEAN JEWRY, 1938-1945

Analysis of those political, economic, social and intellectual factors leading to systematic destruction of European Jewry during World War II. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41131 HISTORY OF AFRICA TO 1880

Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41132 HISTORY OF AFRICA, 1880-PRESENT

Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41135 HISTORY OF WEST AFRICA

Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 41789 THE FRENCH REVOLUTION AND NAPOLEON

Analysis of the causes of Revolution in France, political, ideological and social conflict in the construction of French democracy expansion of the revolution outside of France. Prerequisite: Senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate



Schedule Types: Lecture
Department: History

HIST 42140 THE SIXTIES: A THIRD WORLD VIEW

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

HIST 42141 COMPARATIVE THIRD WORLD REVOLUTIONS

Examination of 20th-century revolutions in Latin America, Africa and Asia focusing on ideologies and political leadership. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

HIST 42142 AFRO-LATIN AMERICA

Focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women. Prerequisite: junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: History

HIST 42297 COLLOQUIUM: CHINA AND JAPAN

Study of important issues in the history of China and Japan through reading and discussing major works pertinent to the issues selected. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

Course Attributes: Writing Intensive Course

HIST 42397 COLLOQUIUM: WOMEN IN EUROPE FROM ANTIQUITY TO RENAISSANCE

This course examines the social, cultural and economic institutions which determined the position of women from antiquity to the sixteenth century. Other issues considered are the image and role of women, Christian perceptions of women and their impact on women's lives. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

Course Attributes: Diversity Course-Global, Writing Intensive Course

HIST 42497 COLLOQUIUM: WOMEN IN MODERN EUROPE

The colloquium addresses the experiences of European women from the Enlightenment to the present. Using primary sources and recent scholarship, students examine the relationship between women and state formation, industry, sexuality, empire, socialism, war, welfare, migration and feminism. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

Course Attributes: Diversity Course-Global, Writing Intensive Course

HIST 43097 COLLOQUIUM: MEDIEVAL RUSSIA

Political, social, economic and cultural developments from the 9th-17th centuries, particularly the nature of political organization, the Mongol impact, the role of the church and religious life in pre-Petrine Russia. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

HIST 43797 COLLOQUIUM ON VICTORIAN ENGLAND

Consideration of distinctive features of Victorian England including class structure, ideas, manners, politics, foreign affairs, empire. Prerequisite: None.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

Course Attributes: Writing Intensive Course

HIST 44297 COLLOQUIUM IN AFRICAN HISTORY

This course will deal with some of the major themes of African history. Topics will vary from semester to semester. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

HIST 45597 COLLOQUIUM IN RUSSIAN HISTORY

Study of major issues in Russian history through analysis and discussion of the historiography and critical writing.

Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

Course Attributes: Writing Intensive Course

HIST 45697 COLLOQUIUM: SOCIAL HISTORY OF LATIN AMERICA

The formation of Latin American societies from the Iberian conquest to the present.

Prerequisite: Permission.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

Course Attributes: Writing Intensive Course

HIST 45797 COLLOQUIUM: COMPARATIVE LATIN AMERICAN REVOLUTIONS

A study of the meaning of revolution in Latin America from the wars of independence to the Nicaraguan revolution in 1979. A comparative approach is employed focusing on Mexico, Brazil, Cuba, Chile and Central America. Prerequisite: Permission.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

Course Attributes: Writing Intensive Course

HIST 46097 COLLOQUIUM: STALINISM

Focus on Josif Stalin's rise to power and the historiographical debates about the origins, results and legacy of his domestic and foreign policies. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

HIST 46597 COLLOQUIUM IN TWENTIETH-CENTURY EUROPEAN DIPLOMACY

Coverage of important works dealing with major diplomatic issues from origins of World War I to present. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

Course Attributes: Writing Intensive Course

HIST 46897 COLLOQUIUM ON THE AGE OF JEFFERSON

Intensive examination of the problems of a critical period of American history through readings, reports and discussions.

Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: History

HIST 47597 COLLOQUIUM ON NATO

An examination of the historical significance of the Atlantic Alliance from its origins in the late 1940s to the present. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate



Schedule Types: Colloquium
Department: History

HIST 47697 COLLOQUIUM ON POST-1945 EUROPE

Coverage of the historical literature on Europe's major political, diplomatic, economic and social developments since 1945. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: History
Course Attributes: Writing Intensive Course

HIST 48097 COLLOQUIUM IN TWENTIETH-CENTURY U.S. FOREIGN RELATIONS

Covers U.S. diplomatic history from World War I to the present emphasizing bibliography and historiography. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: History
Course Attributes: Writing Intensive Course

HIST 48697 COLLOQUIUM: U.S. MIDDLE PERIOD, 1820-1900

Reading, discussion and written reviewing of important works on the period. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: History
Course Attributes: Writing Intensive Course

HIST 48797 COLLOQUIUM IN AFRICAN AMERICAN HISTORY TO 1877

This colloquium specializes in African American history prior to 1877, with emphasis on historiographical literature of the period. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: History

HIST 48897 COLLOQUIUM IN AFRICAN AMERICAN HISTORY SINCE 1877

This colloquium specializes in African American history after 1877, with emphasis on historiographical literature of the period. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: History

HIST 49091 SENIOR SEMINAR IN HISTORY

History majors complete a significant work of original research based on primary sources. Topics vary by instructor. Enrollment limited to senior history majors. Prerequisite: History major and senior standing and HIST 32050 with C or higher.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: History

HIST 49095 SPECIAL TOPICS IN UNITED STATES HISTORY

Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable for a maximum of 18 credit hours. Prerequisite: junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 49195 SPECIAL TOPICS: EUROPE SINCE 1500

(repeatable for maximum 18 credit hours) Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Prerequisite: junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 49196 INDIVIDUAL INVESTIGATION

2.000 OR 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: History

HIST 49199 SENIOR HONORS PROJECT

Thesis or other independent study or creative project. Required of students seeking to graduate with honors in history. Prerequisite: Permission (see HONR 40099).
3.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Senior Project/Honors Thesis
Department: History

HIST 49295 SPECIAL TOPICS IN GLOBAL HISTORY

Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Prerequisite: junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: History

HIST 50093 WORKSHOP IN HISTORY

Special workshop in history. Topic will vary according to professor. Prerequisite: None.

1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: History

HIST 50197 AMERICA'S CULTURAL HERITAGE: THE ARTS AND SOCIETY

An examination of selected American arts in their cultural context. American studies methodologies and concepts of history. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 51000 PUBLIC HISTORY

A survey of public history including: archives; editing, museums and historical agency administration; historic preservation; and related skill areas (e.g. artifact analysis, oral history). Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51003 HISTORY OF ANCIENT GREECE

The course is a survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51004 HELLENIC CONTRIBUTIONS TO WESTERN CIVILIZATION

An introduction to the major intellectual and cultural achievements of the Greeks-ca. 800-350 BC. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51005 TEACHING WORLD HISTORY

(Repeatable for credit) To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials. Prerequisite: graduate standing in history (HIST).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

**HIST 51006 ROMAN HISTORY**

A survey of Roman history from its beginnings to the Fall of the Roman Empire. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51010 THE EARLY MIDDLE AGES

A survey of the major political, social and cultural developments of Europe from the fourth through the tenth century. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51011 THE HIGH MIDDLE AGES

A survey of political, social and cultural developments of Europe from the eleventh through the thirteenth century. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51014 EUROPE IN THE RENAISSANCE

An analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51016 THE PROTESTANT CATHOLIC REFORMATION

A comprehensive course dealing with the religious, political, economic and social change accompanying the religious upheavals of the 16th-century. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51017 17TH-CENTURY EUROPE

This course will analyze those political, economic, social, religious and intellectual factors leading to economic crisis and civil wars in Europe. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51018 18TH-CENTURY EUROPE

This course will analyze the many different factors and unresolved crises of the 17th

century that led to revolution throughout Europe. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51020 19TH-CENTURY EUROPE

Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51024 MODERN EUROPEAN HISTORY, 1914-1945

Special attention paid to the two World Wars, Bolshevik Revolution, rise of Fascism and fate of European Jewry. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51025 MODERN EUROPEAN HISTORY:1945 TO PRESENT

Survey of European political, economic, social and cultural developments since 1945. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51026 TUDOR ENGLAND 1485-1603

Early Modern England with an emphasis on the Renaissance, Reformation, social change and the Tudor monarchs, Henry VIII and Elizabeth. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51040 HISTORY OF GERMANY, 1648-1871

Focuses on the rise of Prussia, the cultural revival of the 18th century, the impact of the French Revolution and the process of unification. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51041 HISTORY OF GERMANY, 1871 TO PRESENT

Focuses on the impact of industrialization, the dilemma of the German left, the rise of Nazism, and the emergence of two German states after 1945. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51044 RUSSIA FROM ITS ORIGINS TO 1801

Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51045 MODERN RUSSIA, 1917-PRESENT

Focus on 1917 revolutions, civil war, nationalities question, NEP, collectivization, Great Terror, World War II, Cold War, Soviet foreign policy and culture, Perestroika, and post-Soviet economic, political, and ideological changes. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51049 HISTORY OF THE BALKANS:18TH CENTURY TO 1914

Survey of the Albanians, Bulgarians, Greeks, Romanians and South Slavs under Ottoman domination and their struggles for national independence. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51050 HISTORY OF THE BALKANS:1914 TO PRESENT

The Balkans since 1914, including coverage of post-World War II period. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51051 POLITICS, CULTURE AND SOCIETY OF TWENTIETH-CENTURY EUROPE

Political, social and cultural change in Europe during the twentieth century. Topics include violence, war revolution, economic crises, and social and political changes. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

**HIST 51056 HISTORY OF COLONIAL AMERICA, 1492-1714**

Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51057 18TH-CENTURY AMERICA, 1714-1789

Cultural development of English Colonies; Great war for Empire; American Revolution and Constitution. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51058 THE JEFFERSON-JACKSON ERA, 1789-1848

A study of the founding and development of the American nation, especially the periods of Jefferson and Jackson. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51060 COMPARATIVE FASCISM

Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51062 THE UNITED STATES: THE WESTWARD MOVEMENT

The process of settlement from its beginning; consequences for American history. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51065 SECTIONAL CONFLICT AND CIVIL WAR

Differences within the United states, including the controversy over slavery; the Civil War in all its aspects. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51066 RECONSTRUCTION AND THE LATER SOUTH

Controversy during and after the Civil War as to racial and sectional relationships; the post-Reconstruction compromises and their undoing. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51070 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1790-1876

Major currents of the period: social background of the early republic; religious development; impace of the frontier; abolition. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51071 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876 TO PRESENT

Continuation of HIST 41070, HIST 51070 and HIST 71070. Development of social Darwinism, racism, Pragmatism, popular arts. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51074 AMERICAN ECONOMIC HISTORY

Survey of growth and development of American economic and business life from colonial times to the present. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51075 WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865

An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51076 WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT

An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the

War on Terror. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51082 CONSTITUTIONAL HISTORY OF THE UNITED STATES

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51083 U.S. FOREIGN RELATIONS THROUGH WORLD WAR I

The evolution of U.S. foreign policy from its colonial origins through the Paris Peace Conference of 1919, with special emphasis on domestic roots of foreign policy. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51084 U.S. FOREIGN RELATIONS FROM 1920

The history of U.S. foreign policy from the 1920s on with special emphasis on the evolving role of America as a world power. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51087 PROGRESSIVE AMERICA: THE UNITED STATES 1896-1919

Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through the first World War. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51088 NEW ERA THROUGH WORLD WAR: THE UNITED STATES 1920-1945

Major political, economic, social, cultural and diplomatic events from the new era of the 1920s through the second World War. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51089 RECENT AMERICA: THE UNITED STATES 1945-PRESENT

Examines everyday life and culture, assesses the degree to which presidents and their administrations are the reflections of their constituencies, and evaluates the significant events and themes of U.S.



history since 1945. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51097 COLLOQUIUM: SAINTS, MONKS AND THE MEDIEVAL COMMUNITY

Investigates major religious institutions that shaped medieval European society and the impact on popular piety. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 51112 HISTORY OF MODERN CHINA

Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of Communism. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51116 HISTORY OF JAPAN

A general survey of the development of Japan from a loose confederation of clans to a modern industrial state. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51131 HISTORY OF AFRICA TO 1880

Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51132 HISTORY OF AFRICA, 1880-PRESENT

Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51135 HISTORY OF WEST AFRICA

Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 51789 THE FRENCH REVOLUTION AND NAPOLEON

Analysis of the causes of revolution in France, political ideological and social

conflict in the construction of French democracy expansion of the revolution outside of France. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 52140 THE SIXTIES: A THIRD WORLD VIEW

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 52141 COMPARATIVE THIRD WORLD REVOLUTIONS

Examination of 20th-century revolutions in Latin America, Africa and Asia focusing on ideologies and political leadership. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 52142 AFRO-LATIN AMERICA

Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 52297 COLLOQUIUM: CHINA AND JAPAN

Study of important issues in the history of China and Japan through reading and discussing major works pertinent to the issues selected. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 52397 COLLOQUIUM: WOMEN IN EUROPE FROM ANTIQUITY TO RENAISSANCE

This course examines the social, cultural and economic institutions which determined the position of women from antiquity to the sixteenth century. Other issues considered are the image and role of women, Christian perceptions of women and their impact on

women's lives. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 52497 COLLOQUIUM: WOMEN IN MODERN EUROPE

The colloquium addresses the experiences of European women from the Enlightenment to the present. Using primary sources and recent scholarship, students examine the relationship between women and state formation, industry, sexuality, empire, socialism, war, welfare, migration and feminism. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 53097 COLLOQUIUM: MEDIEVAL RUSSIA

Political, social, economic and cultural developments from the 9th-17th centuries, particularly the nature of political organization, the Mongol impact, the role of the church and religious life in pre-Petrine Russia. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 53797 COLLOQUIUM ON VICTORIAN ENGLAND

Consideration of distinctive features of Victorian England including class structure, ideas, manners, politics, foreign affairs, empire. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 53800 RELIGION AND SOCIETY IN THE MODERN WEST

Introduction to recent trends in the writing of European and comparative western religious history. Examines themes across societies with particular emphasis placed on gender, bourgeois culture, national identity, liberalism and democracy, the industrial working classes, race and racism, fascism and communism. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 54297 COLLOQUIUM IN AFRICAN HISTORY

This course will deal with some of the major themes of African history. Topics will vary from semester to semester. Prerequisite: Graduate standing.



3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 55597 COLLOQUIUM IN RUSSIAN HISTORY

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 55697 COLLOQUIUM: SOCIAL HISTORY OF LATIN AMERICA

The formation of Latin American societies from the Iberian Conquest to the present.
Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 55797 COLLOQUIUM: COMPARATIVE LATIN AMERICAN REVOLUTIONS

Four major Latin American revolutions, the Mexican, Cuban, Chilean and Nicaraguan, are analyzed in a comparative framework.
Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 56097 COLLOQUIUM: STALINISM

Focus on Josif Stalin's rise to power and the historiographical debates about the origins, results and legacy of his domestic and foreign policies. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 56597 COLLOQUIUM IN 20TH-CENTURY EUROPEAN DIPLOMACY

Coverage of important works dealing with major diplomatic issues from origins of World War I to present. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 56897 COLLOQUIUM ON THE AGE OF JEFFERSON

An intensive examination of the problems of a critical period of American history through readings, reports and discussions.
Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 57597 COLLOQUIUM ON NATO

An examination of the historical significance of the Atlantic Alliance from its origins in the late 1940s to the present. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 57697 COLLOQUIUM ON POST-1945 EUROPE

Coverage of Europe's major political, diplomatic, economic and social developments since 1945. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 58097 COLLOQUIUM IN 20TH-CENTURY U.S. FOREIGN RELATIONS

Covers U.S. diplomatic history from World War I to the present emphasizing bibliography and historiography. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 58697 COLLOQUIUM: U.S. MIDDLE PERIOD 1820-1900

Reading, discussion and written reviewing of important works on the period. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 58797 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY TO 1877

This colloquium specializes in African American history prior to 1877, with emphasis on historiographical literature of the period. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 58897 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY SINCE 1877

This colloquium specializes in African American history from 1877, with emphasis on historiographical literature of the period. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 59095 SPECIAL TOPICS IN UNITED STATES HISTORY

Special course in the history of the United States, the subject and topic of which varies

by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 59195 SPECIAL TOPICS: EUROPE SINCE 1500

Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 59295 SPECIAL TOPICS IN GLOBAL HISTORY

Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 60092 PUBLIC HISTORY INTERNSHIP

Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization). Prerequisite: Graduate standing.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: History

HIST 61001 METHODS OF HISTORICAL RESEARCH

An introduction to methods of historical research, with an emphasis on behavioral techniques. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 61002 HISTORIOGRAPHY

Development of historical thinking. Students will read excerpts of famous historians and prepare papers. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: History

HIST 61024 SEMINAR IN 20TH-CENTURY EUROPEAN HISTORY

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 61025 SEMINAR: 20TH-CENTURY EUROPEAN DIPLOMATIC HISTORY

Research and writing on selected problems in the international relations of European states during this century. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 61026 SEMINAR IN TUDOR ENGLAND

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 61065 SEMINAR IN AMERICAN HISTORY: THE CIVIL WAR PERIOD

Research and writing on aspects of mid-19th century United States history. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 61067 AMERICA: REUNITED NATION TO WORLD POWER, 1877-1900

Background lectures, weekly discussions of assigned readings, research paper. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 61069 SEMINAR IN RECENT AMERICAN HISTORY

Lectures, readings and class discussions aimed toward the production of a scholarly paper on a limited aspect of American history since 1900. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 61074 SEMINAR IN 19TH-CENTURY AMERICA

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar

Department: History

HIST 61083 SEMINAR IN AMERICAN DIPLOMATIC HISTORY

Selected problems in American foreign policy and in American foreign relations from 1776 to the present. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 61091 SEMINAR IN AFRICAN-AMERICAN HISTORY

Seminar in selected topics in African American history from the 17th century through the 20th century. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 62097 PUBLIC HISTORY COLLOQUIUM

Assigned readings, discussions and papers focus on particular emphases and skill areas in public history. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 62197 COLLOQUIUM ON PROBLEMS IN MEDIEVAL HISTORY

Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 62997 COLLOQUIUM IN EARLY MODERN EUROPE

Systematic reading and research in the history of early modern Europe: 1598-1815. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 69199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: History

HIST 69299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: HIST 69199 and graduate standing.

2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: History

HIST 69894 COLLEGE TEACHING OF HISTORY

Prerequisite: Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 69896 INDIVIDUAL INVESTIGATION

Prerequisite: Graduate standing.
2.000 OR 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: History

HIST 69898 RESEARCH

Prerequisite: Graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: History

HIST 70092 PUBLIC HISTORY INTERNSHIP

Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization). Prerequisite: Doctoral standing.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: History

HIST 70197 AMERICA'S CULTURAL HERITAGE: THE ARTS AND SOCIETY

An examination of selected American arts in their cultural context. American studies, methodologies and concepts of history. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 71000 PUBLIC HISTORY

A survey of public history including: archives, editing, museums and historical agency administration; historic preservation; and related skill areas (e.g. artifact analysis, oral history). Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

**HIST 71003 HISTORY OF ANCIENT GREECE**

Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71004 HELLENIC CONTRIBUTIONS TO WESTERN CIVILIZATION

Major intellectual and cultural achievements of the Greeks--ca. 800-350 B.C. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71005 TEACHING WORLD HISTORY

To prepare graduate students to teach world history at the university level. Special focus on integrating non-Western sources and points of view into the world history curriculum, preparation of world history syllabus and justification of selected readings and topics, mastery of on-line and in-class technologies to deliver world history materials. Prerequisite: doctoral standing in history (HIST). 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71006 ROMAN HISTORY

A survey of Roman history from its beginning to the fall of the Roman empire. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71010 THE EARLY MIDDLE AGES

Survey of major political, social and cultural developments of Europe from the fourth through 10th centuries. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71011 THE HIGH MIDDLE AGES

Survey of political, social and cultural developments of Europe from 11th through 13th centuries. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71014 EUROPE IN THE RENAISSANCE

Analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71016 THE PROTESTANT CATHOLIC REFORMATION

Comprehensive course dealing with the religious, political, economic and social change accompanying the religious upheavals of the 16th century. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71017 17TH-CENTURY EUROPE

This course will analyze those political, economic, social, religious and intellectual factors leading to economic crisis and civil wars in Europe. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71018 18TH-CENTURY EUROPE

This course will analyze the many different factors and unresolved crises of the 17th century that led to revolution throughout Europe. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71020 19TH-CENTURY EUROPE

Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism, and foreign policy in Great Britain, France, Prussian and Austria. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71024 MODERN EUROPEAN HISTORY, 1914-1945

Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71025 MODERN EUROPEAN HISTORY:1945 TO PRESENT

Survey of European political, economic social and cultural developments since 1945. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71026 TUDOR ENGLAND 1485-1603

Early modern England with emphasis on Renaissance, Reformation, social change and the Tudor monarchs, Henry VIII and Elizabeth. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71040 HISTORY OF GERMANY, 1648-1871

Focuses on the rise of Prussia, the cultural revival of the 18th century, the impact of the French Revolution and the process of unification. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71041 HISTORY OF GERMANY, 1871-PRESENT

Focuses on the impact of Industrialization, the dilemma of the German Left, the rise of Nazism and the emergence of two German states after 1945. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71044 RUSSIA FROM ITS ORIGINS TO 1801

Study of the entire imperial period, with focus on modernization, state institutions, nationalities, social groups and estates, economy, politics and ideologies, and elite and popular culture. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71045 MODERN RUSSIA, 1917-PRESENT

Focus on 1917 revolutions; Civil War; nationalities question; NEP; collectivization; great terror; World War II; Cold War; Soviet Foreign policy and culture; Perestroika and post-Soviet economic, political and ideological changes. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: History

HIST 71049 HISTORY OF THE BALKANS:18TH CENTURY TO 1914

Survey of Albanians, Bulgarians, Greeks, Romanians and South Slavs under Ottoman domination and their struggles for national independence. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71050 HISTORY OF THE BALKANS:1914 TO PRESENT

The Balkans since 1914, including coverage of post-World War II period.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71051 POLITICS, CULTURE AND SOCIETY OF TWENTIETH-CENTURY EUROPE

Political, social and cultural change in Europe during the twentieth century. Topics include violence, war, revolution, economic crises and social and political changes.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71056 HISTORY OF COLONIAL AMERICA, 1492-1714

Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71057 18TH-CENTURY AMERICA, 1714-1789

Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71058 THE JEFFERSON-JACKSON ERA, 1789-1848

Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71060 COMPARATIVE FACISM

Examination of the theories and practices of fascist movements and regimes in twentieth-century Europe utilizing a variety of perspectives. Organized primarily thematically instead of geographically with readings and discussions based on historiographical and critical analyses.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71062 THE UNITED STATES:THE WESTWARD MOVEMENT

The process of settlement from its beginnings; consequences for American history. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71065 SECTIONAL CONFLICT AND CIVIL WAR

Differences within the United States, including the controversy over slavery; the Civil War in all its aspects. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71066 RECONSTRUCTION AND THE LATER SOUTH

Controversy during and after the Civil War as to racial and sectional relationships; the post-Reconstruction compromises and their undoing. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71070 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1790-1876

Major currents of the period: social background of the early republic; religious development; impact of the frontier; abolition. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71071 AMERICAN SOCIAL AND INTELLECTUAL HISTORY, 1876 TO PRESENT

Continuation of HIST 71070. Development of social Darwinism, racism, pragmatism, popular arts. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71074 AMERICAN ECONOMIC HISTORY

Survey of growth and development of American economic and business life from Colonial times to the present. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71075 WAR AND SOCIETY IN THE UNITED STATES FROM 1607 THROUGH 1865

An examination of the impact of conflict and the military upon the society, culture, economy and diplomacy of the United States. Topics include colonial Indian wars, the Revolutionary War, the War of 1812, the Mexican-American War and the Civil War. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71076 WAR AND SOCIETY IN THE UNITED STATES FROM 1865 TO THE PRESENT

An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71082 CONSTITUTIONAL HISTORY OF THE UNITED STATES

Of America as a world power. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 71083 U.S. FOREIGN RELATIONS THROUGH WORLD WAR I

The evolution of U.S. foreign policy from its Colonial origins through the Paris Peace Conference of 1919 with special emphasis on the domestic roots of foreign policy.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

**HIST 71084 U.S. FOREIGN RELATIONS FROM 1920**

The history of U.S. foreign policy from the 1920s on with special emphasis on the evolving role of America as a world power. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71087 PROGRESSIVE AMERICA:THE UNITED STATES 1896-1919

Major political, economic, social cultural and diplomatic events from the crisis of the 1890s through the first World War. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71088 NEW ERA THROUGH WORLD WAR:THE UNITED STATES 1920-1945

Major political, economic, social, cultural and diplomatic events from the new era of the 1920s through the second World War. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71089 RECENT AMERICA:THE UNITED STATES 1945-PRESENT

Examines everyday life and culture, assesses the degree to which presidents and their administrations are the reflections of their constituencies, and evaluates the significant events and themes of U.S. history since 1945. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71097 COLLOQUIUM: SAINTS, MONKS AND THE MEDIEVAL COMMUNITY

Investigates major religious institutions that shaped medieval European society and the impact on popular piety. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 71112 HISTORY OF MODERN CHINA

Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of communism. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71116 HISTORY OF JAPAN

General survey of the development of Japan from a loose confederation of clans to a modern industrial state. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71131 HISTORY OF AFRICA TO 1880

Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71132 HISTORY OF AFRICA, 1880-PRESENT

Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 71135 HISTORY OF WEST AFRICA

Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History
HIST 71789 THE FRENCH REVOLUTION AND NAPOLEON

Analysis of the causes of revolution in France, political ideological and social conflict in the construction of French democracy expansion of the revolution outside of France. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 72097 PUBLIC HISTORY COLLOQUIUM

Assigned readings, discussions and papers focus on particular emphases and skill areas in public history. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 72140 THE SIXTIES:A THIRD WORLD VIEW

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 72141 COMPARATIVE THIRD WORLD REVOLUTIONS

Examination of 20th-century revolutions in Latin America, Africa and Asia focusing on ideologies and political leadership. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 72142 AFRO-LATIN AMERICA

Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: History

HIST 72297 COLLOQUIUM:CHINA AND JAPAN

Study of important issues in the history of China and Japan through reading and discussing major works pertinent to the issues selected. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 72397 COLLOQUIUM: WOMEN IN EUROPE FROM ANTIQUITY TO RENAISSANCE

This course examines the social, cultural and economic institutions which determined the position of women from antiquity to the sixteenth century. Other issues considered are the image and role of women, Christian perceptions of women and their impact on women's lives. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 72497 COLLOQUIUM: WOMEN IN MODERN EUROPE

The colloquium addresses the experiences of European women from the Enlightenment to the present. Using primary sources and recent scholarship, students examine the relationship between women and state formation, industry, sexuality, empire, socialism, war, welfare,



migration and feminism. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 73097 COLLOQUIUM: MEDIEVAL RUSSIA

Political, social, economic and cultural developments from the 9th to 17th centuries particularly the nature of political organization, the Mongol impact, the role of the church and religious life in pre-Petrine Russia. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 73797 COLLOQUIUM ON VICTORIAN ENGLAND

Consideration of distinctive features of Victorian England including class structure, ideas, manners, politics, foreign affairs, empire. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 73800 RELIGION AND SOCIETY IN THE MODERN WEST

Introduction to recent trends in the writing of European and comparative western religious history. Examines themes across societies with particular emphasis placed on gender, bourgeois culture, national identity, liberalism and democracy, the industrial working classes, race and racism, fascism and communism. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

HIST 74297 COLLOQUIUM IN AFRICAN HISTORY

This course will deal with some of the major themes of African history. Topics will vary from semester to semester. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 75597 COLLOQUIUM IN RUSSIAN HISTORY

Study of major issues in Russian history through analysis and discussion of the historiography and critical writing.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 75697 COLLOQUIUM: SOCIAL HISTORY OF LATIN AMERICA

The formation of Latin American societies from the Iberian Conquest to the present.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 75797 COLLOQUIUM: COMPARATIVE LATIN AMERICAN REVOLUTIONS

A study of the meaning of revolution in Latin America from the wars of independence to the Nicaraguan revolution in 1979. A comparative approach is employed focusing on Mexico, Brazil, Cuba, Chile and Central America. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 76097 COLLOQUIUM: STALINISM

Focus on Josif Stalin's rise to power and the historiographical debates about the origins, results and legacy of his domestic and foreign policies. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 76597 COLLOQUIUM IN 20TH-CENTURY EUROPEAN DIPLOMACY

Coverage of important works dealing with major diplomatic issues from origins of World War I to present. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 76897 COLLOQUIUM ON THE AGE OF JEFFERSON

Intensive examination of the problems of a critical period of American history through readings, reports and discussions.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 77597 COLLOQUIUM ON NATO

An examination of the historical significance of the Atlantic Alliance from its origins in the late 1940s to the present. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 77697 COLLOQUIUM ON POST-1945 EUROPE

Coverage of the historical literature on Europe's major political, diplomatic, economic and social developments since 1945. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 78097 COLLOQUIUM IN 20TH-CENTURY U.S. FOREIGN RELATIONS

Covers U.S. diplomatic history from World War I to the present emphasizing bibliography and historiography.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 78697 COLLOQUIUM: U.S. MIDDLE PERIOD 1820-1900

Coverage of the historical literature on Europe's major political, diplomatic, economic and social developments since 1945. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 78797 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY TO 1877

This colloquium specializes in African American history prior to 1877, with emphasis on historiographical literature of the period. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 78897 COLLOQUIUM IN AFRICAN-AMERICAN HISTORY SINCE 1877

This colloquium specializes in African American history after 1877, with emphasis on historiographical literature of the period.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: History

HIST 79095 SPECIAL TOPICS IN UNITED STATES HISTORY

Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: History

**HIST 79195 SPECIAL TOPICS: EUROPE SINCE 1500**

Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 79295 SPECIAL TOPICS IN GLOBAL HISTORY

Special course in the history of the ancient and medieval worlds, Africa, Asia, Latin America, and/or the Middle East, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 79894 COLLEGE TEACHING OF HISTORY

Prerequisite: Doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 81001 METHODS OF HISTORICAL RESEARCH

The course introduces graduate students to library reference tools, journal literature, research methodology, quantitative techniques and writing and original research paper. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 81002 HISTORIOGRAPHY

Development of historical thinking. Students will read excerpts of famous historians and prepare papers. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 81024 SEMINAR IN 20TH-CENTURY EUROPEAN HISTORY

Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 81025 SEMINAR: 20TH-CENTURY EUROPEAN DIPLOMATIC HISTORY

Research and writing on selected problems in the international relations of European states during this century. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 81026 SEMINAR IN TUDOR ENGLAND

Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 81065 SEMINAR IN AMERICAN HISTORY: THE CIVIL WAR PERIOD

Research and writing on aspects of mid-19th century United States history. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 81067 AMERICA: REUNITED NATION TO WORLD POWER, 1877-1900

Background lectures, weekly discussion of assigned readings, research paper. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: History

HIST 81069 SEMINAR IN RECENT AMERICAN HISTORY

Lectures, readings and class discussions aimed toward the production of a scholarly paper on a limited aspect of American history since 1900. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 81074 SEMINAR IN 19TH-CENTURY AMERICA

An introduction to primary research in American economic and political history. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 81083 SEMINAR IN AMERICAN DIPLOMATIC HISTORY

Selected problems in American foreign policy and in American foreign relations from 1776 to present. Prerequisite: Doctoral standing.
3.000 Credit hours

3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 81091 SEMINAR IN AFRICAN-AMERICAN HISTORY

Seminar in selected topics in African American history from the 17th century through the 20th century. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: History

HIST 82197 COLLOQUIUM ON PROBLEMS IN MEDIEVAL HISTORY

Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 82997 COLLOQUIUM IN EARLY MODERN EUROPE

Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: History

HIST 89199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: History

HIST 89299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: HIST 89199 and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: History

HIST 89896 INDIVIDUAL INVESTIGATION

Prerequisite: Doctoral standing.
2.000 OR 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: History

HIST 89898 RESEARCH

Doctoral Standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research



Department: History

Hospitality Management (HM)

HM 13022 SANITATION AND SAFETY PRINCIPLES AND PRACTICES

Safety and sanitation practices pertinent to food service. Emphasis is on laws, food microbiology, storage practices and accident prevention. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HM 13023 TECHNIQUES OF FOOD PRODUCTION

Commercial food production principles for milk, cheese, eggs, produce, grains, meats, poultry and fish are covered. Sauces, soups, salads, entrees, side dishes and desserts are prepared with an emphasis on food quality and safety, effective equipment use, work planning and simplification, recipe standardization, pricing and presentation. Prerequisite: nutrition and food (NF) major. Corequisite: HM 13022.
5.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Foundations, Leadership and Administration

HM 13024 INTRODUCTION TO HOSPITALITY MANAGEMENT

Career opportunities and the scope, development and history of the hospitality industry. Introduction to management in the hospitality industry including food service, lodging and tourism. Prerequisite: None.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HM 21095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT

(Repeatable for a maximum of 8 credit hours) Discussion of a major discipline or subject within the hospitality industry. Prerequisite: none.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HM 23012 FOOD STUDY

Principles of food preparation and quality evaluation with consideration of nutritive value and retention. One hour of lecture and four hours of lab. Prerequisite: NUTR 23511.
3.000 Credit hours
1.000 Lecture hours
4.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Foundations, Leadership and Administration
Course Attributes: TAG Health

HM 23030 LODGING OPERATIONS

This course provides students with an introduction to lodging, resort operations and management. Skills needed to succeed in the field and career opportunities are emphasized. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HM 33020 LEGAL ISSUES IN THE HOSPITALITY INDUSTRY

Overview and analysis of legal issues of concern to the hospitality operation. Topics include employment law, food and beverage liabilities, patron civil rights, local, state, and federal regulations; and franchising. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HM 33026 HOSPITALITY COST CONTROL AND ANALYSIS

Prepares students to analyze and control costs encountered in hospitality operations. Includes computer applications, math drills and simulations. Prerequisite: MIS 24053 and ACCT 23020 and HM 13023.
5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HM 33028 HOSPITALITY PURCHASING

Emphasis on the selection of food, goods and services for the management of hospitality organizations. Emphasis is placed on product identification, grading and quality standards. Prerequisite: HM 13023.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HM 33029 CATERING AND BANQUET PREPARATION AND SERVICE

Combines theoretical and practical applications of planning, merchandising, costing, producing and serving catered meals. Prerequisite: HM 33026.
5.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture

Department: Foundations, Leadership and Administration

HM 33031 FOOD, WINE AND BEVERAGE PAIRING

Provides knowledge of the sensory relationship of food, wine, beer and other spirits and the important role this process has on hospitality operations. Topics include developing an understanding of wine, beer and food pairing as a hierarchical process. Menu development and cooking the food play an important role in this class; food is chosen first then paired with the appropriate beverage. Students must be 21 years old to enroll in the class. Prerequisite: none.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Foundations, Leadership and Administration

HM 33035 HOSPITALITY SERVICE QUALITY MANAGEMENT

The unique issues associated with managing guest satisfaction will be explored. The delivery of quality services and recovery from service failure in hospitality organizations will be studied from a human resource and organizational perspective. Prerequisite: MIS 24163.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HM 33036 CLUB MANAGEMENT

Introduction to private club management and operations. Strategic planning, marketing, human resources, service excellence, legal issues and financial management will be emphasized within the context of food and beverage, golf and recreation. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

HM 33040 HOTEL CONVENTION GROUP SALES AND SERVICES

From a hotel sales and convention services perspective the convention and meetings industry is examined. Students are introduced to all facets of the conventions and meetings industry. Prerequisite: HM 23030 and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

**HM 33050 PROFESSIONAL PRACTICE IN HOSPITALITY MANAGEMENT**

Preparation of students for professional work experiences in hospitality management. Career development and professional workplace issues are addressed. Prerequisite: junior standing.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 37777 CASINO MANAGEMENT AND GAMING OPERATIONS

Introduction to the various aspects of the casino and gaming industry. Students study the structure of casino organizations, gain basic understanding of gaming operations and responsible gaming. Casino environments are experienced through on-site visitations. Funds for travel are the student's responsibility, and all students must be legal age of 21 prior to on-site class visitations. Prerequisite: special approval.

3.000 Credit hours

2.500 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Foundations, Leadership and Administration

HM 41093 VARIABLE TOPIC WORKSHOP IN HOSPITALITY MANAGEMENT

Workshop setting dealing with a topic or topics in hospitality management. Learning experiences are provided in a wide range of areas. Prerequisite: None.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Foundations, Leadership and Administration

HM 41095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT

Discussion of a major topic within a specific field of hospitality management.

Prerequisite: None.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 41096 INDIVIDUAL INVESTIGATION

Independent study in hospitality management. Prerequisite: Written permission from instructor.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Foundations, Leadership and Administration

HM 43025 HOSPITALITY MARKETING

Application of marketing principles, practices and theories relevant to hospitality organizations. Case studies drawn from the hospitality industry are incorporated.

Prerequisite: HM 13023 and MIS 24163 and MKTG 25010.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 43027 HOSPITALITY HUMAN RESOURCE MANAGEMENT

Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies are incorporated.

Prerequisite: HM 33026 and MIS 34180.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

Course Attributes: Writing Intensive Course

HM 43029 HOSPITALITY FINANCIAL POLICY

Strategic financial decision making for short-and long-term financial management problems in various hospitality organizations such as hotels, restaurants, clubs and resorts, through case analysis. Prerequisite: FIN 36053.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 43030 FOOD SERVICE SYSTEMS MANAGEMENT

The study of food service systems management, including menu planning and evaluation, recipe development, purchasing equipment, financial management, marketing and human resources.

Prerequisite: HM 23012.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

Course Attributes: TAG Health

HM 43031 LAYOUT AND DESIGN OF FOOD SERVICE OPERATIONS

Analysis and planning for the layout and design of commercial food service operations. Includes basic principles of design; space analysis; and equipment use, care, selection and layout for food service facilities based on the financial performance of the operation; food codes and related regulations. An appreciation for engineering and architecture concerns pertaining to food service operations is developed.

Prerequisite: HM 33026

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 43032 FOOD PRODUCTION AND SERVICE MANAGEMENT

The application of management principles in food production and service systems, including production management, quality control, distribution and service, and physical facilities. A laboratory is included in the course. Prerequisite: HM 23012 and HM 43030.

3.000 Credit hours

1.500 Lecture hours

1.500 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Foundations, Leadership and Administration

Course Attributes: TAG Health

HM 43040 STRATEGIC LODGING MANAGEMENT

The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk management and finance options are used to develop strategic plans in hotels.

Prerequisite: HM 23030 and HM 33026.

3.000 Credit hours

2.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Foundations, Leadership and Administration

HM 43043 HOSPITALITY MEETINGS MANAGEMENT

Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging. Prerequisite: HM 23030 and HM 33026.

4.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Foundations, Leadership and Administration

HM 43092 PRACTICUM IN HOSPITALITY MANAGEMENT

Supervised professional experience in the hospitality industry including operations such as restaurants, hotels, clubs, health care, theme parks and food distribution. Bimonthly seminars course assignments are included. Repeatable for a total of 6 credits. Prerequisite: HM 33050 and junior or senior standing and special approval.

3.000 TO 6.000 Credit hours

21.000 TO 42.000 Other hours

Level: Undergraduate



Schedule Types: Practicum
Department: Foundations, Leadership and Administration

HM 53025 HOSPITALITY MARKETING

Application of marketing principles, practices and theories relevant to hospitality organizations. Internet marketing in hospitality. Case studies drawn from the hospitality industry are incorporated. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 53027 HOSPITALITY HUMAN RESOURCE MANAGEMENT

Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management focused case studies and current controversies are incorporated. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 53029 HOSPITALITY FINANCIAL POLICY

Strategic financial decision making for short and long-term financial management problems in various hospitality organizations such as hotels, restaurants, clubs and resorts through case analysis. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 53030 FOOD SERVICE SYSTEMS MANAGEMENT

The study of food services systems management, including menu planning and evaluation, recipe development, purchasing, equipment, financial management, marketing and human resources. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 53040 STRATEGIC LODGING MANAGEMENT

The hotel manager's role as a strategic thinker is emphasized. Techniques such as co-alignment model, brand strategy, competitor analysis, market research, risk

management and finance options are used to develop strategic plans in hotels.

Prerequisite: Graduate standing.

3.000 Credit hours

2.000 Lecture hours

1.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Foundations, Leadership and Administration

HM 53043 HOSPITALITY MEETINGS MANAGEMENT

Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association and corporate events, weddings, reunions, award banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging. Prerequisite: Special approval and graduate standing.

4.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Foundations, Leadership and Administration

HM 61098 RESEARCH IN HOSPITALITY MANAGEMENT

Research for master's-level graduate students. Credit earned may be applied toward meeting degree requirements if school approves. Prerequisite: graduate standing and special approval.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Foundations, Leadership and Administration

HM 61198 MASTERS PROJECT IN HOSPITALITY MANAGEMENT

Completion and successful defense of master's project. Master's project students must register for a total of 6 credit hours, 2-6 in a single semester; distributed over several semesters if desired. Prerequisites: graduate standing and special approval.

2.000 TO 6.000 Credit hours

2.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Foundations, Leadership and Administration

HM 61199 THESIS I

Thesis students register for a total of 6 credit hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. Prerequisite: graduate standing and special approval.

2.000 TO 6.000 Credit hours

2.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Foundations, Leadership and Administration

HM 61299 THESIS II

Thesis II students must continue registration each semester until all degree requirements are met. Prerequisite: HM 61199 and graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Foundations, Leadership and Administration

HM 63022 CURRENT ISSUES IN HOSPITALITY AND TOURISM MANAGEMENT

Current research and management issues in hotels, resorts, restaurants, clubs and other hospitality operations are explored through the peer-reviewed and professional literature. Current tourism topics with implications for hospitality managers are included. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 63024 MANAGEMENT OF FOOD AND NUTRITION SERVICES

Management issues in healthcare, food and nutrition services, child nutrition programs and other noncommercial food services will be examined. The impact of quality standards, public policy and current societal trends upon management of noncommercial operations will be studied. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

HM 63026 RESEARCH SEMINAR

Presentation and discussion of research and projects by students and faculty.

Course may be repeated once for total 2 credit hours to be applied toward degree requirements. Prerequisite: graduate standing. Corequisite: SRM 63098 or 63199 or 63299; or HM 61198 or 61199 or 61299.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Foundations, Leadership and Administration

HM 63095 SPECIAL TOPICS IN HOSPITALITY MANAGEMENT

Specialized offering of a major topic within hospitality management. Prerequisite: graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration



Honors (HONR)

HONR 10096 INDIVIDUAL HONORS WORK

Directed independent study for freshmen in any department. Prerequisite: Special approval of department.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Honors

Course Attributes: Honors Course

HONR 10197 FRESHMAN HONORS COLLOQUIUM I

Required of all honors freshmen in lieu of College Writing. Stresses exploration, discussion and communication of ideas expressed in works related to theme of colloquium. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Honors Course, Kent Core-Composition

HONR 10297 FRESHMAN HONORS COLLOQUIUM II

Continuation of HONR 10197. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Honors Course, Kent Core-Composition

HONR 13197 COLLOQUIUM:THE HISTORY OF CIVILIZATION I

(Equivalent to HIST 11050) World history from early human societies through the mid-17th century. Prerequisite: Admitted to the Honors College.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Diversity Course-Global, Honors Course, Kent Core-Humanities

HONR 13297 COLLOQUIUM: THE HISTORY OF CIVILIZATION II

(Equivalent to HIST 11051) Continuation of HONR 13197. World history from mid 17th century to the present. Prerequisite: Admitted to the Honors College.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Diversity Course-Global, Honors Course, Kent Core-Humanities

HONR 13397 COLLOQUIUM:U.S. HISTORY I

(Equivalent to HIST 12070) Survey of U.S. history through 1877. Prerequisite:

Admitted to the Honors College.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Diversity Course-Domestic, Honors Course, Kent Core-Humanities

HONR 13497 COLLOQUIUM:U.S. HISTORY II

(Equivalent to HIST 12071) Survey of U.S. history since 1877. Prerequisite: Admitted to the Honors College.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Diversity Course-Domestic, Honors Course, Kent Core-Humanities

HONR 13597 COLLOQUIUM: THE WESTERN IDENTITY

Focuses on Western and non-Western cultures from a comparative perspective, in order to identify both different and shared values and to see how one's own culture shapes one's perspective, ideology, and values. Prerequisite: admitted to the Honors College and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

HONR 15297 COLLOQUIUM:AMERICAN POLITICS

(Equivalent to POL 10100) This course covers the basic elements of politics at the national level in the United States: structures, processes, behaviors, institutions and policies. Special emphasis is given to conflicting theories of power as they apply to different economic, sexual and racial groups in America. Prerequisite: Admitted to the Honors College.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Diversity Course-Domestic, Honors Course, Kent Core-Social Sciences

HONR 15397 COLLOQUIUM: WORLD POLITICS

(Equivalent to POL 10500) A practical, theoretical introduction to a study of systematic patterns in international relations. Includes analysis of rules, instruments, processes, decision-making factors, conflict resolution. Prerequisite: Admitted to the Honors College.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Diversity Course-Global, Honors Course, Kent Core-Social Sciences

HONR 15497 COLLOQUIUM: COMPARATIVE POLITICS

(Equivalent to POL 10004) This course introduces the different institutional structures of governance (e.g., parliamentary versus presidential systems) in a range of different states; for different types of regimes (e.g. democratic and authoritarian); and at the international level. Prerequisite: Admitted to the Honors College.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Diversity Course-Global, Honors Course, Kent Core-Social Sciences

HONR 20096 INDIVIDUAL HONORS WORK

Directed independent study for sophomores in any department. Prerequisite: Special approval of department.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Honors

Course Attributes: Honors Course

HONR 20197 SOPHOMORE COLLOQUIUM

One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to a single theme, by means of readings, discussion and individual papers and projects. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Honors Course

HONR 20297 SOPHOMORE COLLOQUIUM

See HONR 20197. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Honors

Course Attributes: Honors Course

HONR 21197 COLLOQUIUM: PRINCIPLES OF MICROECONOMICS

(Equivalent to ECON 22060) Principles and policies affecting prices, including factor incomes, under alternative market structures. Tools developed to examine social problems, including poverty, crime, pollution and international relations. Prerequisite: Admitted to the Honors College.

3.000 Credit hours



3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: Honors
Course Attributes: Honors Course, Kent
Core-Social Sciences

HONR 21297 COLLOQUIUM: PRINCIPLES OF MACROECONOMICS

(Equivalent to ECON 22061) Principles and policies affecting aggregate production, consumption, investment and government expenditures. Includes role of money, the banking system, inflation, unemployment and economic growth. Prerequisite: Admitted to the Honors College; and HONR 21197 or ECON 22060.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: Honors
Course Attributes: Honors Course, Kent
Core-Social Sciences

HONR 30096 INDIVIDUAL HONORS WORK

Directed independent study for juniors in any department. Prerequisite: Special approval of department.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Honors
Course Attributes: Honors Course

HONR 30197 JUNIOR COLLOQUIUM

One-semester course or two-semester sequence for juniors or seniors exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: Honors
Course Attributes: Honors Course

HONR 30297 JUNIOR COLLOQUIUM

See HONR 30197. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: Honors
Course Attributes: Honors Course

HONR 30497 COLLOQUIUM: INTERNATIONAL STUDY

Designed for students preparing for participation in overseas programs sponsored by the Office of International Affairs. Provides basis for future research abroad. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium

Department: Honors
Course Attributes: Honors Course

HONR 35097 COLLOQUIUM IN POLITICAL SCIENCE

Intensive study of significant problems in politics. Topic readings and core research theme vary from semester to semester.

Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: Honors
Course Attributes: Honors Course

HONR 40085 SENIOR HONORS PORTFOLIO

Construction of a senior portfolio, consisting of a collection of artifacts and a reflective essay interpreting the student's growth during the college years. Prerequisite: Senior standing.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Honors
Course Attributes: Honors Course

HONR 40096 INDIVIDUAL HONORS WORK

Directed independent study for seniors in any department. Prerequisite: Prior special approval of instructor and special approval of and preregistration with Honors College.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Honors
Course Attributes: Honors Course
HONR 40099 SENIOR HONORS THESIS/PROJECT

Thesis or creative project. Prerequisite: Special approval of department.

1.000 TO 10.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Senior Project/Honors Thesis
Department: Honors
Course Attributes: Honors Course

HONR 40197 SENIOR COLLOQUIUM

One-semester course or two-semester sequence exploring interdisciplinary ideas and issues related to single theme, by means of readings, discussion and individual papers and projects. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: Honors
Course Attributes: Honors Course

HONR 40297 SENIOR COLLOQUIUM

See HONR 40197. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours
3.000 Other hours

Level: Undergraduate
Schedule Types: Colloquium
Department: Honors
Course Attributes: Honors Course

HONR 40497 COLLOQUIUM: INTERNATIONAL STUDY

See HONR 30497. Prerequisite: Admitted to the Honors College.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Colloquium
Department: Honors
Course Attributes: Honors Course

Horticulture Technology (HORT)

HORT 16001 INTRODUCTION TO HORTICULTURE

A survey of those opportunities available within the "green industry" both in education and as a career option. Guest speakers and field trips are part of the class. Prerequisite: None.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

HORT 26001 OCCUPATIONAL REGULATIONS AND SAFETY

Presentation of the basic standards, rules, safety regulations and laws pertaining to horticultural and related industries which will affect the work atmosphere. Lecture two hours weekly; offered only at the Geauga and Salem campuses. Corequisites: BSCI 16001 and HORT 16001.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

HORT 26010 ARBORICULTURE

Basics of pruning and tree climbing techniques. Covers the equipment and safe use of equipment commonly found in the arboricultural industry. Lecture two hours weekly; lab three hours weekly; offered only at the Salem campuses. Prerequisites: BSCI 16001 and HORT 16001.

3.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

HORT 26011 COOPERATIVE WORK EXPERIENCE IN TREE CARE

Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience



classes will be allowed. Corequisite: HORT 26010.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Biological Sciences

HORT 26012 URBAN FORESTRY

Urban forestry and the planning and managing of urban green-scapes. Appraisal and computerized GIS/GPS inventory of urban vegetation, urban land use planning and legal ordinances, maintenance and management of street and park trees. Outdoor field trips and guest lecturers. Prerequisite: HORT 16001 and BSCI 16001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

HORT 26016 IRRIGATION DESIGN AND MAINTENANCE

Principles of irrigation design, installation maintenance and drainage. Specific information about the selection of sprinkler heads, pipe, pumps, basic hydraulics, water conservation methods and automatic control systems shall be explored. Drawing of irrigation plans shall be required. Prerequisite: HORT 16001 and BSCI 16001.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Biological Sciences

HORT 26018 LANDSCAPE CONSTRUCTION

The basic skills and techniques involved in landscape contracting and construction, including building material data, site grading, contour mapping, deck construction, water features, lighting, landscape paving and retaining walls. Field trips and outside hands-on experience. Prerequisite: HORT 16001 or advisor's approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Biological Sciences

HORT 26020 LANDSCAPE MANAGEMENT

A detailed discussion and practice of managing trees, shrubs and flowers within the landscape. Additional concepts such as the types of equipment used in the "green industry," marketing, writing specifications, bidding projects and personnel management. Prerequisite: BSCI 16001 and HORT 16001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

HORT 26021 COOPERATIVE WORK EXPERIENCE IN LANDSCAPE MANAGEMENT

Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience will be allowed. Corequisite: HORT 26020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Biological Sciences

HORT 26030 TURF GRASS MANAGEMENT

Basic principles of turf management. Covers turf equipment and the safe use of equipment commonly found in the turf industry. Lecture two hours weekly; lab three hours weekly; course offered only at the Salem campus. Prerequisites: BSCI 16001 and HORT 16001.

3.000 Credit hours

2.000 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Biological Sciences

HORT 26031 COOPERATIVE WORK EXPERIENCE IN TURF GRASS MANAGEMENT

Cooperative work program through which the skills necessary to perform professionally in this occupation will be acquired. This course offered only at the Salem Campus. Requires a minimum of 30 hours per week of work experience. Not more than 9 semester hours in this or a combination of other work experience classes will be allowed. Corequisite: HORT 26030.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Biological Sciences

HORT 26032 GOLF COURSE MANAGEMENT

The golf course environment as it relates to turf grass maintenance and pest/disease management. The construction and management of greens, tees, water and bunker management practices, turf aeration issues, topdressing and administrative concerns. Prerequisite: HORT 16001 and HORT 26031 and BSCI 16001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

HORT 26046 LANDSCAPE DESIGN I

An introduction to landscape appreciation and history, the landscape industry and elements of the landscape design process.

Students will assess proper plant placement and uses, develop graphic communication skills and present a project. Field trips and project site work as required. Prerequisite: HORT 16001 and BSCI 16001 and BSCI 26003.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Biological Sciences

HORT 36014 PLANT PROPAGATION AND GREENHOUSE PRODUCTION

Asexual/vegetative propagation including anatomical and physical concepts. Techniques covered include cuttings, budding, grafting, layering, dividing and micro propagation. Plant propagation by seeding and plugs are promoted along with crop production. Students provide an annual production schedule. Lecture two hours weekly; lab three hours weekly. Prerequisites: HORT 16001 and BSCI 16001.

3.000 Credit hours

2.000 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Biological Sciences

HORT 36018 LANDSCAPE CONSTRUCTION II

Advanced landscape construction techniques involved in landscape contracting with an emphasis on the overall layout and planning of a landscape project. Students master and research product documentation, layout plans, written specifications and detailed construction drawings as they pertain to built landscape environments. Specific field site work with real world applications. Lecture two hours weekly; lab 3 hours weekly. Prerequisites: HORT 26018; and junior or senior standing.

3.000 Credit hours

2.000 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Biological Sciences

HORT 36025 PROFESSIONAL PRACTICE IN HORTICULTURE

Investigation into owning and operating a green industry company including customer relations, wholesale and retail marketing, project bidding, potential profit and loss margins, communication requirements, and overall services to public and private clientele. Prerequisites: HORT 26001 and 26016 and 26018.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Biological Sciences

Course Attributes: Writing Intensive Course

HORT 36034 SPORTS TURF MANAGEMENT

Identification of grass plant species; culture and morphology; turf ecology with practical



information on turf establishment and cultural practices. Covers issues of design, renovation, and maintenance of sports grounds and facilities. Class requires 20 hours service learning component. Prerequisites: HORT 26030; and junior or senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

HORT 36046 LANDSCAPE DESIGN II

Advanced landscape design looking at overall landscape planning, including site and planting design, site amenities, irrigation design and client needs. Special attention to communication formats such as color rendering and graphics, as well as to overall presentation. Some design modeling and graphic sketching are included. Prerequisites: HORT 26012 or 26032 or 26046; and junior or senior standing.
3.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Biological Sciences

HORT 36092 INTERNSHIP IN HORTICULTURE

Internship experience in an advanced field of study within the horticulture/green industry, building on the student's understanding of science-based fundamentals. Internship requires a minimum of 210 working hours with an approved public organization or private green industry firm, and 2 hours per week consultation on independent research as approved and supervised by the academic program director. Work includes supporting documentation and written reports as deemed appropriate give the subject studied. Prerequisites: 6 hours from HORT 26011 and 26021 and 26031; and special approval.
4.000 Credit hours
16.000 Other hours
Level: Undergraduate
Schedule Types: Practicum, Research
Department: Biological Sciences

HORT 41096 INDIVIDUAL INVESTIGATION IN HORTICULTURE

Research under the direction of a horticulture faculty/program director mentor. Investigation of specific horticulture topics that build upon previous concentration areas of study. Prerequisite: junior or senior standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Biological Sciences

HORT 46014 GARDEN CENTER AND NURSERY PRODUCTION MANAGEMENT

Survey of plant production of container, bare-root, balled-in-burlap plant materials in a nursery setting. Exploration of

physiological principles involved, including planting, maturity dates for harvest, shipping, garden center activities and wholesale and retail marketing of stock. Prerequisites: BSCI 26002 and BMRT 11000; and junior or senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Biological Sciences

HORT 46092 PRACTICUM IN HORTICULTURE

An in-depth individual project, combining field experiences with original research within a green industry niche. Area of interest supports the student's educational goals given their intended concentration of pas class work. Prerequisites: HORT 36092; and junior or senior standing.
3.000 Credit hours
16.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Biological Sciences

Health Policy and Management (HPM)

HPM 50196 INDIVIDUAL INVESTIGATION IN HEALTH POLICY AND MANAGEMENT (repeatable for maximum 6 credits)

Individual graduate investigation or research in areas related to health policy and management. Prerequisite: graduate standing and special approval.
1.000 TO 3.000 Credit hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Public Health

HPM 52015 EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT

An overview of emerging challenges in public health policy and management. Examples include pandemic H1N1 response, biopreparedness, national health care reform, public health financing challenges, global tuberculosis drug resistance. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 52016 PUBLIC HEALTH ADMINISTRATION

Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 53003 HEALTH CARE SYSTEMS

Provides a systems approach to delivering health care and public health services in the US. Includes an overview of public health, outpatient, inpatient, managed care, long term care and health services for special populations. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 53004 PUBLIC HEALTH POLICY, LAW AND ETHICS

Provides a comprehensive review of health policymaking, public health law and ethical principles as applied to public health decision making. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 53005 FINANCIAL MANAGEMENT FOR PUBLIC HEALTH ORGANIZATIONS

Provides an overview of financial management of public health organizations. Topics include planning for public health program budgeting, understanding costs and short and long term financing, accountability and control, reporting results and financial statement and financial conditions analysis. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 53006 COST BENEFIT ANALYSIS IN PUBLIC HEALTH PROGRAMS

Provides an overview of cost-benefit analysis as applied to the evaluation of public health programs. Students apply principles of cost benefit analysis and related cost utility analysis to case studies in the public health sector. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 53007 PUBLIC HEALTH PROGRAMS: PLANNING, IMPLEMENTATION AND EVALUATION

Overview of developing, implementing and evaluating public health programs. Examines how public health programs can target different levels within a population, different determinants of health and strategies and interventions. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

**HPM 72015 EMERGING ISSUES IN PUBLIC HEALTH POLICY AND MANAGEMENT**

An overview of emerging challenges in public health policy and management. Examples include pandemic H1N1 response, biopreparedness, national health care reform, public health financing challenges, global tuberculosis drug resistance. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 72030 GRANT WRITING IN PUBLIC HEALTH

Students in this doctoral level course for Public Health learn the basics of grant writing for federal (NIH) and non-federal funding agencies with a particular emphasis on the components required of most grant proposal submitted for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing your literature review, background and significance, research design and methodology, developing a budget, and conducting research with human subjects. Participants have the opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 73021 HEALTH CARE FINANCE

Covers the financial environment of health services in the US, including accounting principles, financial statement analysis, delivery models, management control processes of budgeting and capital project analysis, managerial accounting, program development and financial plan. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 73022 STRATEGIC MANAGEMENT OF HEALTH CARE ORGANIZATIONS

Covers basic and advanced principles of strategic management of health care organizations including service area analysis, internal environment analysis, developing and evaluating strategic alternatives and quality indicators. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 73023 OPERATIONS MANAGEMENT IN PUBLIC HEALTH

Provides a framework for health care operations management including the history of performance management and tools for applying operations management to public health care delivery systems. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

HPM 73031 PUBLIC HEALTH POLICY ANALYSIS

Provides a framework for conducting public health policy analysis. Applies concepts to case studies of health policies at the local, state and Federal levels. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

Heritage Languages (HRTG)**HRTG 10101 ELEMENTARY I (VARIABLE LANGUAGE)**

An introduction to a heritage language in the context of the culture of its speakers. Prerequisite: None. 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Variable Title

HRTG 10102 ELEMENTARY II (VARIABLE LANGUAGE)

A continuation of the introduction to a heritage language in the context of the culture of its speakers. Prerequisite: HRTG 10101 and special approval. 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Variable Title

HRTG 20201 INTERMEDIATE I (VARIABLE LANGUAGE)

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: HRTG 10102 and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Variable Title

HRTG 20202 INTERMEDIATE II (VARIABLE LANGUAGE)

Continuation of HRTG 20201. Prerequisite: HRTG 20201. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Variable Title

HRTG 30095 SPECIAL TOPICS

Topic announced in schedule of classes. Prerequisite: Permission. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

Human Services Technology (HST)**HST 11000 INTRODUCTION TO HUMAN SERVICES**

A survey of the role of human service technologists, their professional and ethical responsibilities, employment possibilities and avenues for professional advancement. Prerequisite: None. 1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

HST 11001 GROUP PROCESS IN HUMAN SERVICES

The structure and function of groups, focusing on problem solving and communication in human service agencies. Prerequisite: None. 2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

HST 11002 SURVEY OF COMMUNITY RESOURCES

A survey of providers at the federal, regional, state and local levels, including services provided and regulations of private and public agencies. Prerequisite: none. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

HST 21000 DYNAMICS OF HELPING RELATIONSHIP FOR HUMAN SERVICES TECHNOLOGIST

The dynamics of helping relationship in human services agencies. Skill development in listening and provision of assistance to clients is emphasized. Prerequisite: HST 11001. Corequisites: HST 21001 and HST 21092. 3.000 Credit hours
3.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

HST 21001 ASSESSMENT OF CLIENT NEEDS

An introduction to the evaluation of client needs and assessment of client condition. Prerequisite: HED 21050. Corequisites: HST 21000 and HST 21092.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

HST 21002 CLIENT ADVOCACY AND CASE MANAGEMENT IN HUMAN SERVICE ORGANIZATIONS

Assessment of case management strategies with an emphasis on the role of the client advocate in the human service setting. Prerequisite: HST 21001. Corequisite: HST 21192.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

HST 21092 INTERNSHIP IN HUMAN SERVICES TECHNOLOGY I

Supervised field experience in a human service agency (minimum of 16 hours per week). Joint university-agency supervision. Prerequisite: Advisor special approval. Corequisites: HST 21000 and HST 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Practicum
Department: Regional College

HST 21192 INTERNSHIP IN HUMAN SERVICES TECHNOLOGY II

Continued supervised field experience in a human services agency (minimum 16 hours per week). Joint university-agency supervision. Prerequisites: HST 21092 and special approval. Corequisite: HST 21002.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Practicum
Department: Regional College

High Technology Manufacturing Technology (HTMT)

HTMT 13600 ELECTRONIC MATERIALS

Introduction to electronic properties and structure of semiconductor materials, micro-machines, sensors and packaging materials. Prerequisites: CHEM 10060 and CHEM 10062.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

HTMT 13601 INTRODUCTION TO PHOTONICS AND FIBER OPTICS

Introduction to fiber optics and photonic components/systems, devices and optical communications. Prerequisite: Permission.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 13602 INTRODUCTION TO LASERS

Introduction to laser theory, operation and operating practices and its output characteristics. Usage of low power helium neon lasers and safety considerations. Prerequisite: Permission.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 13603 LASERS AND ELECTRO-OPTIC COMPONENTS AND DEVICES

The laser technology tools, special purpose devices and measuring tools are discussed. Prerequisite: Permission.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 23600 SEMICONDUCTOR MANUFACTURING I

Study of semiconductor manufacturing. An emphasis on "clean room" operations will be studied. Topics include oxidation, photolithography, photo masking, etching, doping, deposition, metallization and packaging. Prerequisite: HTMT 13600.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 23601 SEMICONDUCTOR MANUFACTURING II

An overview knowledge of wafer fabrication operations is the goal. A team project will require complete technical report emphasizing quality control and integration of electronics, etc. Prerequisite: HTMT 23600.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 23602 PHOTOLITHOGRAPHY IN IC FABRICATION

Introduction to light and optical systems used in photolithographic processes and equipment in semiconductor manufacturing using PC board design software and electronic assembly. Corequisite: HTMT 23600.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate

Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 23603 LIGHT SOURCES AND WAVE OPTICS

Study of the generation and measurement of light and the wave nature of light from the viewpoint of wave optics including optical materials. Prerequisite: Sophomore standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 23604 VACUUM SYSTEM TECHNOLOGY

Study of vacuum technology with emphasis on application to semiconductor manufacturing. Terminology, measurement techniques, operation and application of vacuum equipment, leak detection and troubleshooting are presented. Prerequisite: PHY 12201.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 23606 POWER RADIO FREQUENCY

Study of vacuum radio frequency energy and its application in the manufacturing industry. Topics include plasma physics, RF applications, safety, RF generators, transmission lines and RF interference. Prerequisite: PHY 12202 and EERT 12010.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 23607 LASER TECHNOLOGY:APPLICATIONS

Study and application of laser technology in industry, manufacturing and medicine including laser safety and hazard evaluation. Prerequisite: Sophomore standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

HTMT 23695 SPECIAL TOPICS

Special topics in lasers, photonics or semiconductor technology. Topics announced when scheduled. Repeated registration permitted. Prerequisite: Sophomore standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College



Information Architecture and Knowledge Management (IAKM)

IAKM 41096 INDIVIDUAL INVESTIGATION IN INFORMATION ARCHITECTURE, INFORMATION USE OR KNOWLEDGE MANAGEMENT

Research or individual investigation for baccalaureate level students at or above the junior level. Prerequisite: Permission of instructor.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Library and Information Sciences

IAKM 60001 INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT IN CONTEXT

Overview of the Information Architecture and Knowledge Management (IAKM) program and its concentrations. Basic skills and understandings in information literacy, organization of knowledge, information sources and searching. Information sciences, systems, and professionals in the information society. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60002 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES

Introduction to various types of knowledge organization systems/services/structures (KOS) used in the networked environment. Understanding of the functional, philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60101 INFORMATION ARCHITECTURE

Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60102 INFORMATION AND VISUAL DESIGN

This course provides a cultural and technological context for understanding the information design process. Topics include: basic design and typographic principles, aesthetics and information design, functional integration of visual and verbal elements, creation and use of information graphics visualization of quantitative information and visual navigation systems. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60103 RESEARCHING THE USER EXPERIENCE

Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other documents that model user behavior. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60104 USABILITY I

Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eye-tracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60105 INFORMATION TECHNOLOGIES

Covers four aspects of information technology: essential technology concepts, the making of software, the social consequences of information technology and the role of non-programmers in technology design. Topics include operating systems, networks, search engines, markup

languages, social software, dynamic languages, cloud computing, open source software, technology trends and the history of computing. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60110 CONTENT MANAGEMENT SYSTEMS

This course provides an overview of the concepts and practices of Content Management (CM) and Content Management Systems (CMS), including understanding the parts and branches of a CMS criteria for selecting a CMS, CMS configuration, and evaluating and implementing CMS software. Prerequisite: IAKM 60105 or 80105; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60111 ONLINE BRANDING

This course will focus on the strategies needed to advance brands through effective online experiences including web sites, intranets extranets and emerging web technologies. Students will also learn how to extend the brand through personalization, localization and other segmentation techniques. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60112 ADVANCED INFORMATION ARCHITECTURE

Web site design from emerging directions, such as the separation of content from presentation with e.g., the use of Cascading Style Sheets (CSS) for formatting web-based documents. The course includes considerations of making web sites compliant with federal regulations or other standards and validation for various markup guidelines. Prerequisite: IAKM 60101 or 80101; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 60113 USER AND TASK ANALYSIS

In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design



and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process. Prerequisites: IAKM 60101 or 80101; and 60103 or 80103; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60114 USABILITY II

Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research methods. Prerequisites: IAKM 60104 or 80104; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT

This course covers an introduction to: historical roots for knowledge and knowledge management; theories/definitions of knowledge; theories, applications tools and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM-- best practices, culture, economics, strategy, intellectual capital, sustainable innovation. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60302 DOCUMENT AND RECORDS MANAGEMENT

Course provides principles, projects and practices for organizational memory management that includes document, records, media, email and enterprise content management with concerns for strategy, compliance, policy, security and workflow. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60303 EFFECTIVE KNOWLEDGE MANAGEMENT IN ORGANIZATIONS

Implementation strategies for human resources, organizational processes and technology are explored. The organizational knowledge management activities of knowledge acquisition, generation,

formalization, deployment, utilization, measurement and evaluation are presented. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60304 RESEARCH METHODS FOR KNOWLEDGE MANAGEMENT

This course provides a broad overview of the use of the qualitative methods in knowledge management, including an examination of the process of conducting qualitative research from conceptualization, design, data collection, articulation and preliminary implementation. Critical thinking analysis and writing skills are emphasized. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60310 INTELLECTUAL CAPITAL MANAGEMENT

This course encompasses the new knowledge-intensive economic units: human capital and social capital intellectual assets, intellectual property, brands and trademarks. A "lifecycle" approach for intellectual assets is described-- creation, codification, valuation, protection and leveraging of intellectual assets for competitive advantage. Prerequisite: IAKM 60301 or 80301; and IAKM 60302 or 80302; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60311 BUSINESS PROCESS MANAGEMENT

Introduction to business process management and workflow management. BPM will describe how organizational business processes (internal, external, manual and automated) can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes. Prerequisite: IAKM 60301 or 80301; and IAKM 60302 or 80302; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60312 BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE

An introduction to strategic intelligence consisting of competitive and business intelligence. Strategic intelligence is an art,

science and craft. Businesses and governments require effective intelligence programs, processes and tools to track businesses competitors, markets and trends by acquiring, creating, managing and disseminating intelligence knowledge. Prerequisite: IAKM 60301 or 80301; and IAKM 60302 or 80302; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60313 STRATEGIC KNOWLEDGE MANAGEMENT-VIRTUAL COMMUNITIES

Strategic Knowledge Management as it manifests in Virtual Communities: Communities-of-Practice (COPs) and Communities-of-interest (COIs). Areas covered include trust, facilitation of virtual communities, leadership and emotional intelligence in a virtual environment, social network analysis and supporting learning communities with collaborative tools. Prerequisite: IAKM 60301 or 80301; and IAKM 60302 or 80302; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60401 HEALTH INFORMATICS MANAGEMENT

Covers the areas encompassing health informatics management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT). Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60402 LEGAL ISSUES IN HEALTH INFORMATICS

Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Library and Information Sciences

IAKM 60403 HEALTH INFORMATION SYSTEMS

Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60410 HEALTH RECORDS MANAGEMENT

Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting and evaluating EMR and health information systems, applications, and repositories; and issues of data quality, integrity, migration, and interoperability. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 60691 SEMINAR IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in information architecture and knowledge management. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Library and Information Sciences

IAKM 60692 PRACTICUM IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Supervised work experience in concentration areas in IAKM Program of a professional nature of not less than 100 clock hours with directed readings and preparation of a paper. Prerequisite: Graduate standing and special approval. 2.000 OR 3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Library and Information Sciences

IAKM 60693 VARIABLE TITLE WORKSHOP IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Intensive examination of special topics of interest to those involved in program concentrations. Maximum number of workshop credits for the MS-IAKM degree is 4 semester hours. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Library and Information Sciences

IAKM 60792 INTERNSHIP IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of concentration in the IAKM program. Prerequisite: Graduate standing and director's approval. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Library and Information Sciences

IAKM 61081 CAPSTONE EXPERIENCE

Provides students the opportunity to integrate their knowledge from all IAKM courses and experiences, interact with other IAKM students who may have different perspectives and make connections with real-world problems through a guided, project-based, collaborative culminating experience. Prerequisites: IAKM 60001 and 60002 and graduate standing and special approval. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Library and Information Sciences

IAKM 61095 SELECTED TOPICS IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Offered irregularly as resources and/or opportunities permit. Topics could include current or emerging issues in concentrations available in the IAKM program. Specific topics are announced in the Schedule of Classes. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 61096 INDIVIDUAL INVESTIGATION IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Research or individual investigation for master's level students. Maximum credit towards master's degree: 6 hours. Prerequisite: graduate standing. 1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Library and Information Sciences

IAKM 61098 MASTER'S PROJECT

Provides a means for the application of the knowledge, research and competencies learned through study in the Information Architecture and Knowledge Management Program to the development of an information system, product, setting or service. Prerequisite: IAKM 60001 and 60002 and graduate standing and special approval. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Library and Information Sciences

IAKM 61199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: IAKM 60001 and 60002 and graduate standing. 2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Library and Information Sciences

IAKM 61299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: IAKM 60001 and 60002 and 61199 and graduate standing. 1.000 TO 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Library and Information Sciences

IAKM 80001 INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT IN CONTEXT

Overview of the Information Architecture and Knowledge Management (IAKM) program and its concentrations. Basic skills and understandings in information literacy, organization of knowledge, information sources and searching. Information sciences, systems, and professionals in the information society. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Library and Information Sciences

IAKM 80002 KNOWLEDGE ORGANIZATION STRUCTURES, SYSTEMS AND SERVICES

Introduction to various types of knowledge organization systems/services/structures (KOS) used in the networked environment. Understanding of the functional, philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction. Prerequisite: doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80101 INFORMATION ARCHITECTURE

Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design. Prerequisite: doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80102 INFORMATION AND VISUAL DESIGN

This course provides a cultural and technological context for understanding the information design process. Topics include: basic design and typographic principles, aesthetics and information design, functional integration of visual and verbal elements, creation and use of information graphics, visualization of quantitative information, and visual navigation systems. Prerequisite: doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80103 RESEARCHING THE USER EXPERIENCE

Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other

documents that model user behavior. Prerequisite: doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80104 USABILITY I

Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eye-tracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis. Prerequisite: doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80105 INFORMATION TECHNOLOGIES

Covers four aspects of information technology: essential technology concepts, the making of software, the social consequences of information technology and the role of non-programmers in technology design. Topics include operating systems, networks, search engines, markup languages, social software, dynamic languages, cloud computing, open source software, technology trends and the history of computing. Prerequisite: doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80110 CONTENT MANAGEMENT SYSTEMS

This course provides an overview of the concepts and practices of Content Management (CM) and Content Management Systems (CMS), including understanding the parts and branches of a CMS, criteria for selecting a CMS, CMS configuration, and evaluating and implementing CMS software. Prerequisite: IAKM 60105 or 80105; and doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80111 ONLINE BRANDING

This course will focus on the strategies needed to advance brands through effective online experiences including Web sites, intranets, extranets and emerging web technologies. Students will also learn how to extend the brand through

personalization, localization and other segmentation techniques. Prerequisite: doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80112 ADVANCED INFORMATION ARCHITECTURE

Web site design from emerging directions, such as the separation of content from presentation, with e.g., the use of Cascading Style Sheets (CSS) for formatting web-based documents. The course includes considerations of making web sites compliant with federal regulations or other standards and validation for various markup guidelines. Prerequisite: IAKM 601010 or 80101; and doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80113 USER AND TASK ANALYSIS

In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process. Prerequisites: IAKM 60101 or 80101; and 60103 or 80103; and doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80114 USABILITY II

Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research methods. Prerequisites: IAKM 60104 or 80104; and doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Library and Information Sciences

IAKM 80301 FOUNDATIONAL PRINCIPLES OF KNOWLEDGE MANAGEMENT

This course covers an introduction to: historical roots for knowledge and knowledge management;



theories/definitions of knowledge; theories, applications, tools, and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM best practices, culture, economics, strategy, intellectual capital, sustainable innovation. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80302 DOCUMENT AND RECORDS MANAGEMENT

This course provides principles, projects, and practices for organizational memory management that includes document, records, media, e-mail and enterprise content management with concerns for strategy, compliance, policy, security and workflow. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80303 KNOWLEDGE MANAGEMENT IN ORGANIZATIONS

Implementation strategies for human resources, organizational processes and technology are explored. The organizational knowledge management activities of knowledge acquisition, generation, formalization, deployment, utilization, measurement and evaluation are presented. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80304 RESEARCH METHODS FOR KNOWLEDGE MANAGEMENT

This course provides a broad overview of the use of qualitative methods in knowledge management, including an examination of the process of conducting qualitative research from conceptualization, design, data collection, articulation, and preliminary implementation. Critical thinking, analysis, and writing skills are emphasized. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80310 INTELLECTUAL CAPITAL MANAGEMENT

This course encompasses the new knowledge-intensive economic units: human capital and social capital intellectual assets, intellectual property, brands, and trademarks. A "lifecycle" approach for intellectual assets is described creation, codification, valuation, protection and

leveraging of intellectual assets for competitive advantage. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80311 BUSINESS PROCESS MANAGEMENT

Introduction to business process management and workflow management. BPM will describe how organizational business processes, (internal, external, manual and automated), can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes. Prerequisites: IAKM 60301 or 80301; and 60302 or 80302; and doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80312 BUSINESS INTELLIGENCE-COMPETITIVE INTELLIGENCE

An introduction to strategic intelligence consisting of competitive and business Intelligence. Strategic intelligence is an art, science, and craft. Businesses and governments require effective intelligence programs, processes, and tools to track businesses, competitors, markets and trends by acquiring, creating, managing, packaging, and disseminating intelligence knowledge. Prerequisites: IAKM 60301 or 80301; 60302 and 80302; and doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80313 STRATEGIC KNOWLEDGE MANAGEMENT-VIRTUAL COMMUNITIES

Strategic Knowledge Management as it manifests in Virtual Communities: Communities-of-Practice (COPs) and Communities-of-Interest (COIs). Areas covered include: trust, facilitation of virtual communities, leadership and emotional intelligence in a virtual environment, social network analysis, and supporting learning communities with collaborative tools. Prerequisites: IAKM 60301 or 80301; and 60302 or 80302; and doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80401 HEALTH INFORMATICS MANAGEMENT

Covers the areas encompassing Health informatics management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT). Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80402 LEGAL ISSUES IN HEALTH INFORMATICS

Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80403 HEALTH INFORMATION SYSTEMS

Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

IAKM 80410 HEALTH RECORDS MANAGEMENT

Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting and evaluating EMR and health information systems, applications, and repositories; and



issues of data quality, integrity, migration, and interoperability. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 80691 SEMINAR IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Advanced research by students who are qualified to examine problems of certain special areas related to current concentrations of study in IAKM.

Prerequisite: doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Seminar

Department: Library and Information Sciences

IAKM 80693 VARIABLE TITLE WORKSHOP IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Intensive examination of special topics of interest to those involved in program concentrations. Prerequisite: doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Workshop

Department: Library and Information Sciences

IAKM 81095 SELECTED TOPICS IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Offered irregularly as resources and/or opportunities permit. Topics could include current or emerging issues in concentrations available in the IAKM program. Specific topics will be announced in the Schedule of Classes. Prerequisite: doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

IAKM 81096 INDIVIDUAL INVESTIGATION IN INFORMATION ARCHITECTURE AND KNOWLEDGE MANAGEMENT

Research or individual investigation for doctoral level students. Prerequisite: doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Library and Information Sciences

Interior Design (ID)

ID 14501 STUDIO PROBLEMS IN INTERIOR DESIGN I

Studio problems in interior design is a course for the beginning student whose interest is in interior space design.

Prerequisite: TECH 11083.

4.000 Credit hours

2.000 Lecture hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Studio

Department: Architecture

ID 14512 INTERIOR DESIGN GRAPHICS I

Studio based course introducing concepts of architectural drawing and sketching techniques including plan, elevation, section and perspective. Prerequisite: Interior Design (ID) major.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Architecture

ID 24502 STUDIO PROBLEMS IN INTERIOR DESIGN II

Special problems dealing with design of residential and related spaces, traffic flow, placement of furnishings, emphasis on color and textural experience and lighting of space. Practical, integrated approach. Prerequisite: Interior design (ID) major and ID 14501.

4.000 Credit hours

2.000 Lecture hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Studio

Department: Architecture

ID 24510 TEXTILES IN THE BUILT ENVIRONMENT

A concise background in textile science is established with a hands-on approach to the evaluation, selection and application of textiles by interior design professionals and architects. Prerequisite: interior design (ID) major. Corequisite: ID 34503.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Architecture

ID 24511 HOUSING IN TODAY'S SOCIETY

Relationships of well-being of individuals and families in the life cycle for a well-planned residence. Evaluation of housing, planning, financing and modern technological developments. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Architecture

ID 24513 SURVEY HISTORY OF INTERIORS

Chronological study of housing and furnishings from ancient civilizations to present, emphasizing cultural and social forces that contributed to evolution of various styles. Prerequisite: None.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Architecture

ID 24522 INTERIOR DESIGN GRAPHICS II

Studio based course continuation of ID 14512. Exploration of color, media and graphic representation of interior design materials and environments. Prerequisite: ID 14501 and ID 14512 and ID 24502.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Architecture

ID 34503 STUDIO PROBLEMS IN INTERIOR DESIGN III

Special problems concerning design of small to moderate size commercial interior space. Prerequisite: ID 24502.

4.000 Credit hours

2.000 Lecture hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Studio

Department: Architecture

ID 34504 STUDIO PROBLEMS IN INTERIOR DESIGN IV

Introduction to large scale planning. Prerequisite: ARCH 10101 and ID 34503; and pre/corequisite PHY 13001.

4.000 Credit hours

2.000 Lecture hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Studio

Department: Architecture

ID 34512 HOME FURNISHINGS

Practical and aesthetic study of interiors. Selection and arrangement of furnishings. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Architecture

ID 34515 COMPUTER AIDED DESIGN FOR INTERIOR DESIGNERS

Introduction to application of computer drawing and drafting techniques used in interior design. Study of two dimensional and three dimensional techniques as well as symbol libraries. Prerequisite: interior design (ID) major. Corequisite: ID 34503.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Architecture

**ID 34522 METHODS AND MATERIALS FOR INTERIOR DESIGN**

Information regarding the manufacture, construction and application of materials used in interior design. Proper methods and installation procedures of both surface materials and furnishings required in the profession are explored. Prerequisite: interior design (ID) major. Corequisite: ID 24502.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 41093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN

Workshops dealing with variable topics related to the interior design profession. Learning experiences provided in a broad spectrum of specialties. Prerequisite: Interior design (ID) major.

1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Architecture

ID 41095 SPECIAL TOPICS IN INTERIOR DESIGN

Discussion of a major topic or issue within the profession of interior design. Repeat registration permitted. Prerequisite: Interior design (ID) major.

1.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 41096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN

Independent study of interior design and related topics under the guidance of a faculty member. Prerequisite: Interior design (ID) major.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Architecture

ID 44505 STUDIO PROBLEMS IN INTERIOR DESIGN V

Introduction to principles of historic design focusing on hands-on and on-site design techniques. For interior design majors only. Prerequisite: ID 34504 and ID 44534. Corequisite: ID 44535.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 44506 STUDIO PROBLEMS IN INTERIOR DESIGN VI

Special problems concerning the design of large-scale commercial environments. Prerequisite: TECH 31015 and ID 44505. Corequisite: ARCH 30501.

4.000 Credit hours
2.000 Lecture hours

2.000 Other hours
Level: Undergraduate
Schedule Types: Lecture, Studio
Department: Architecture

ID 44507 STUDIO PROBLEMS IN INTERIOR DESIGN VII

This course will provide the opportunity for a senior design thesis. Problems will be selected by the students and will represent their own area of interest. Prerequisite: ID 44506 and ARCH 30501.

4.000 Credit hours
2.000 Lecture hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Lecture, Studio
Department: Architecture

ID 44512 HISTORIC FURNISHING TEXTILES

Designed to acclimate students to historic textiles created primarily for use in interior architecture. Focus is on aesthetics, design and construction. A comprehensive adaptive reuse or restoration project is required. Prerequisite: ID 44534 and ID 44535.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 44523 INTERIOR DESIGN PROFESSIONAL PRACTICE

A study of the business and professional practices of interior designers. Prerequisite: ID 34504.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 44524 ANGLO-AMERICAN DOMESTIC INTERIORS, EARLY COLONIAL PERIOD

An in-depth study of the Anglo-American interior and domestic furnishings with concentration on the preservation and contemporary usage of both interior architectural spaces and domestic objects. Prerequisite: ID 44512.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 44525 LIGHTING APPLICATION IN INTERIOR SPACES

Design application of lighting technology for various interior spaces. Field trips to study lighting installations. Prerequisite: ID 34503.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 44526 LIGHTING DESIGN IN HISTORIC SPACES

Overview of historic lighting forms and techniques with an emphasis on Anglo-

American design, 18th to 20th centuries. Focus of course will be application of modern techniques to historic design problems. Prerequisite: ID 44505 and ID 44525 and ARCH 30501.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 44527 STUDY TOURS

A series of study tours for in-depth, first-hand experiences of historic sites, markets, manufacturing facilities and attendance at product seminars. Prerequisite: junior or senior standing.

1.000 TO 10.000 Credit hours
1.000 TO 10.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 44534 HISTORY OF INTERIORS TO 1600

A chronological study of housing and furnishings from civilization to the 15th century. Prerequisite: ID 34504; and ARTH 22006 and ARTH 22007; or ARCH 10011 and ARCH 10012; and special approval.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture
Course Attributes: Writing Intensive Course

ID 44535 HISTORY OF INTERIORS-1600 TO PRESENT

A chronological study of housing and furnishings from the Renaissance to the Victorian Period-16th to 19th centuries and 20th century. Prerequisite: ID 44534.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Architecture

ID 44592 PRACTICUM IN INTERIOR DESIGN

Practical experience in a furniture store, department store, design studio, architect's office or design-related agency directed by a qualified professional. Students' initial registration must be 4 hours not to exceed 10 credit hours. Repeatable for a total of 10 hours. Prerequisite: ID 34504 and ID 44523 and MKTG 25010.

2.000 TO 10.000 Credit hours
10.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Architecture

ID 51093 VARIABLE TITLE WORKSHOP IN INTERIOR DESIGN

Workshop topics dealing with variable topics related to the interior design profession. Learning experiences are provided in a wide range of areas. Prerequisite: Interior design (ID) major and graduate standing.

1.000 TO 4.000 Credit hours



4.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Architecture

ID 51095 SPECIAL TOPICS IN INTERIOR DESIGN

Discussion of a major topic or issue within the profession of interior design. Repeat registration permitted. Prerequisite: Interior design (ID) major and graduate standing.

1.000 TO 4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Architecture

ID 51096 INDIVIDUAL INVESTIGATION IN INTERIOR DESIGN

Independent study of interior design and related topics under the guidance of a faculty member. Prerequisite: Interior design (ID) major and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Architecture

ID 54512 HISTORIC FURNISHING TEXTILES

Designed to acclimate students to historic textiles created primarily for use in interior architecture. Focus is on aesthetics, design and construction. A comprehensive adaptive reuse or restoration project is required. Prerequisite: ID 44534 and ID 44535 and graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Architecture

ID 54524 ANGLO-AMERICAN INTERIORS

An in-depth study of the Anglo-American interior and domestic furnishings with concentration on the preservation and contemporary usage of both interior architectural spaces and domestic objects. Prerequisite: Graduate standing and ID 44512.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Architecture

ID 54534 HISTORY OF INTERIORS TO 1600

A chronological study of housing and furnishings from civilization to the 15th century. Prerequisites: Graduate standing and special approval and ID 34504; and ARTH 22006 and ARTH 22007; or ARCH 20001 and ARCH 20002.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Architecture

ID 54535 HISTORY OF INTERIORS 1600 TO PRESENT

A chronological study of housing and furnishings from the Renaissance to the Victorian Period, sixteenth to nineteenth centuries and twentieth century.

Prerequisite: ID 54534 and graduate standing.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Architecture

Industrial Engineering and Related Technologies (IERT)

IERT 12005 APPLICATIONS IN COMPUTER-AIDED DESIGN

Course for training on the use of a popular, computer-aided drafting and design software. Practice with the advanced features of the software applicable to modern design in the graphics, mechanical, industrial and electronics fields.

Prerequisite: None.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

IERT 21096 INDIVIDUAL INVESTIGATION IN SYSTEMS/INDUSTRIAL ENGINEERING TECHNOLOGY

Independent, in depth research of a systems industrial engineering technology topic supervised and coordinated by an engineering technology faculty member.

Prerequisite: Permission.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Regional College

IERT 22000 STATISTICAL PROCESS CONTROL

Process variability, process monitoring, statistical methods using control charts for variables and attributes; acceptance sampling plans; process capability, process adjustment, process improvement.

Prerequisite: Special approval.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

IERT 22001 MOTION AND TIME STUDY

Motion economics, SPC, activity charts, methods improvement, use of standard data method of making studies, computerized line balancing. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

IERT 22003 SUPERVISION AND LABOR RELATIONS

Practical methods and techniques for improving supervision and labor relations in industry. Personnel and performance evaluation, implementing policy, labor contracts, collective bargaining, wage and salary administration. Prerequisite: None.

5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

IERT 22004 FACILITIES ENGINEERING

Principles of facilities engineering to meet production needs. Applications of material-handling devices, plant layout drawings, templates, models and FMS systems.

Prerequisite: None.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

IERT 22005 PRODUCTION AND INVENTORY CONTROL

Basic principles, objectives and influencing factors of production control in industrial organizations of various kinds and their effects on costs. Applied planning and scheduling. Prerequisite: Sophomore standing.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

IERT 22006 ECONOMIC DECISION ANALYSIS

Economic decision making for industrial engineering technology with applications emphasis, estimating economic elements, interest and economic equivalence, methods of comparing alternatives and evaluating replacement alternatives.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

Course Attributes: TAG Engineering

IERT 22007 COOPERATIVE WORK EXPERIENCE

(repeatable for a total of 6 hours) university-industry work study plan in which student alternates periods of study at the university with periods of employment in industry.

Prerequisite: Permission.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

IERT 22008 TAGUCHI PROCESS IMPROVEMENT

Process and product improvement through reduction of variation. Design of



experiments and interpretation of results. Analysis of variance, orthogonal arrays and Taguchi techniques. Prerequisite: MATH 19002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

IERT 22010 COMPUTER INTEGRATED MANUFACTURING

Planning, developing and implementing a strategy to control and coordinate all the engineering production and business operations within a manufacturing enterprise. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

IERT 22095 SPECIAL TOPICS

Special topics in systems/industrial engineering technology. Repeated registration permitted. Prerequisite: Permission.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

Integrated Health Studies (IHS)

IHS 10000 CAREERS IN HEALTH SCIENCES AND HUMAN SERVICES

This course presents the diverse career options in the fields of health sciences and human services. Academic preparation and credentialing for professions will be included. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

IHS 40091 SEMINAR FOR PRACTICUM IN INTEGRATED HEALTH STUDIES

Seminar focuses on applying concepts from previous educational experiences to the practicum work experience. Prerequisite: IHS 10000. Corequisite: IHS 44092.

2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Health Sciences

IHS 44010 RESEARCH DESIGN AND STATISTICAL METHODS IN THE HEALTH PROFESSIONS

Fundamental concepts and procedures for systematic collection, analysis and interpretation of qualitative and quantitative data in health related fields includes group and single-subject designs and use of parametric and nonparametric statistics. Prerequisite: PSYC 21621.

3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

IHS 44091 PROFESSIONAL SEMINAR IN INTEGRATED HEALTH STUDIES

This course presents and integrates the role of scientists, practitioners and administrators in the health care and human service professions as they attempt to meet the needs of the individual in diverse environments. Current issues will be addressed. 400 hours observation/work experience in health/human service-related fields required prior to registration for this course. Prerequisite: Senior standing and special approval.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Health Sciences
Course Attributes: Writing Intensive Course

IHS 44092 PRACTICUM IN INTEGRATED HEALTH STUDIES

Practicum focuses on providing supervised practical experience in a health science, health care and human services organization which allows students to apply theoretical knowledge and skills learned in their coursework. Prerequisite: Integrated health studies (IHS) majors and senior standing and special approval. Corequisite: IHS 40091.

3.000 TO 10.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Health Sciences

IHS 44095 SPECIAL TOPICS IN INTEGRATED HEALTH STUDIES

Selected topics in integrated health dependent upon interest. Prerequisite: none.

1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

IHS 44096 INDIVIDUAL INVESTIGATION IN INTEGRATED HEALTH

Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration. Prerequisite: special approval.

1.000 TO 3.000 Credit hours
3.000 TO 9.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Health Sciences

Integrated Life Sciences (ILS)

ILS 21091 INTEGRATED LIFE SCIENCES SEMINAR I

Seminar for first-year students in Kent State/NEOUCOM program to provide

correlation of natural sciences, social sciences and humanities with medical sciences. Prerequisite: Integrated Life Sciences (ILS) major.

2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Arts and Sciences

ILS 21092 ILS SEMINAR II

Seminar for first-year students in Kent State/NEOUCOM program to provide correlation of natural sciences, social sciences and humanities with medical sciences. Prerequisite: ILS 21091 and Integrated Life Sciences major.

2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Arts and Sciences

ILS 30392 PSYCHOLOGICAL HELPING SKILLS FOR MEDICINE

Basic strategies for helping persons in crisis. Includes guided self exploration of attitudes values and personality styles. Prerequisite: Integrated Life Sciences majors.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Arts and Sciences

ILS 32091 INTEGRATED LIFE SCIENCES SEMINAR III

Continuation of ILS 21092. Prerequisites: ILS 21091 and 21092 and Integrated Life Sciences majors.

2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Arts and Sciences

ILS 32092 INTEGRATED LIFE SCIENCES SEMINAR IV

Continuation of ILS 32091. Prerequisites: ILS 21091, 21092 and 32091 and Integrated Life Sciences majors.

2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Arts and Sciences

ILS 32592 SOCIOLOGICAL PERSPECTIVES IN PUBLIC HEALTH

Sociological phenomena of public health through research/theory and field-research experience consisting of participatory and non-participatory experiences in areas related to medical practice, but not associated with traditionally legitimated medical curricula. Prerequisite: Integrated Life Sciences majors.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Arts and Sciences



ILS 40392 PRACTICUM IN MEDICAL PSYCHOLOGY

Community mental health through community agency field placement. Observation and participation in interviewing crisis intervention and community consultation. Didactic exposure to community mental health theory. Prerequisite: Integrated Life Sciences majors. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Arts and Sciences

ILS 42591 MEDICAL SOCIOLOGY RESEARCH SKILLS

Formulation of community health-related research problem, theoretical concepts and techniques of data collection and analysis. Prerequisite: Integrated Life Sciences majors. Corequisite: ILS 42592. 2.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Seminar Department: Arts and Sciences

ILS 42592 MEDICAL SOCIOLOGY PRACTICUM

Application of sociological research designs and methods to problems in medical sociology through field research and report on a community health-related research problem. Prerequisite: Integrated Life Sciences majors. Corequisite: ILS 42591. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Arts and Sciences

Italian (ITAL)

ITAL 15201 ELEMENTARY ITALIAN I

An introduction to the Italian language in the context of Italian culture. Prerequisite: None. 4.000 Credit hours 4.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 15202 ELEMENTARY ITALIAN II

A continuation of the introduction to the Italian language in the context of Italian culture. Prerequisite: ITAL 15201. 4.000 Credit hours 4.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 15204 BASIC CONVERSATIONAL ITALIAN I

Exposure to basic grammar and to current Italian useful to travelers. Not applicable to fulfillment of foreign language requirement. Prerequisite: Permission.

2.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 15205 BASIC CONVERSATIONAL ITALIAN II

Continuation of ITAL 15204. Prerequisite: ITAL 15204. 2.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 25201 INTERMEDIATE ITALIAN I

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: ITAL 15202. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 25202 INTERMEDIATE ITALIAN II

Continuation of ITAL 25201. Prerequisite: ITAL 25201. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 25209 FIELD STUDY

For residence and/or field research in an Italian-speaking community. Prior to registering for this course student must obtain departmental approval. Repeatable for a total of 6 hours. Prerequisite: Special approval. 1.000 TO 6.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 35211 ITALIAN COMPOSITION AND CONVERSATION I

Study and practice of written and oral Italian with emphasis on acquisition of written and oral proficiency in the language. Prerequisite: ITAL 25202. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 35213 ITALIAN COMPOSITION AND CONVERSATION II

Advanced practice in speaking and writing the Italian language. Prerequisite: ITAL 35211. 3.000 Credit hours 3.000 Lecture hours

Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 35331 EARLY ITALIAN LITERATURE

A survey of Italian literature from its medieval origins to the Baroque period. Prerequisite: ITAL 35211. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies Course Attributes: Writing Intensive Course

ITAL 35332 RECENT ITALIAN LITERATURE

This course surveys the major movements and authors from the Baroque period through the 20th century. Prerequisite: ITAL 35211. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies Course Attributes: Writing Intensive Course

ITAL 35421 ITALIAN CIVILIZATION

Lectures, readings, oral and written reports on outstanding features of the culture and civilization of Italy. Prerequisite: ITAL 25202. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

ITAL 35597 COLLOQUIUM

Variable topic course deals with single literary theme in Italian literature or a single author. May be offered in Italian or in English translation. Prerequisite: Permission. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Colloquium Department: Modern and Classical Language Studies

ITAL 45093 VARIABLE TITLE WORKSHOP IN ITALIAN

Workshops individually designed to provide instruction and training in specific areas of Italian studies. S u graded. Prerequisite: Departmental permission. 1.000 TO 6.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Workshop Department: Modern and Classical Language Studies

ITAL 45096 INDIVIDUAL INVESTIGATION

Allows the advanced, serious student to carry out research study project on Italian literature, language or culture. Prior approval of supervising faculty member



department required. Repeatable for a total of 6 hours. Prerequisite: ITAL 25202 and junior standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Modern and Classical Language Studies

ITAL 45356 DANTE

This course studies Dante's Divine Comedy in its entirety (Inferno, Purgatory and Paradise) in the original language.
Prerequisite: 6 hours of Italian at the 30000-level.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

Information Technology for Administrative Professionals (ITAP)

**ITAP 16605 INTRODUCTION TO
OPERATING SYSTEMS AND
NETWORKING TECHNOLOGY**

Lab-oriented survey of desktop/network OS essentials, including file/disk management, system tools utilization, resource sharing and introductory network concepts.
Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

ITAP 16620 WORD PROCESSING I

Builds expertise in creating business documents applying the basic features of popular word processing software. Emphasis on hands on experience. Lecture 2 hours. Lab 2 hours. Prerequisite: none.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

ITAP 16621 WORD PROCESSING II

Design and create documents by using advanced features of word processing software. Lecture 2 hours, lab 2 hours.
Prerequisite: ITAP 16620.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

**ITAP 16625 BUSINESS
PRESENTATIONS**

Development and production of professional computer-projected presentation materials using popular software. Includes use of graphic design techniques, color layout design principles

and transparencies. Lecture 1 hour. Lab 2 hours. Prerequisite: None.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

**ITAP 16636 DATA MANAGEMENT FOR
ADMINISTRATIVE PROFESSIONALS**

Introduction to the role of data and its management and evolution to information and knowledge in business environments.
Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

ITAP 16639 DATABASE APPLICATIONS

Concepts, terminology and use of current database software to manage and retrieve business information. Emphasis on hands-on experiences. Lecture 2 hour. Lab 2 hour.
Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

**ITAP 16649 DATABASE APPLICATIONS
FOR MEDICAL BILLING**

Overview database course designed for medical billing certificate majors as they add, query, and create forms and generate reports for medical environments.
Prerequisite: medical billing certificate (C123) major.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

**ITAP 16650 SYSTEMS STUDIES FOR
MEDICAL BILLING AND CODING**

Overview course to link knowledge of body systems with coding procedures in medical facilities. Corequisite: ITAP 26651 or HED 14020.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

ITAP 16680 COMPUTER KEYBOARDING

Basic keyboarding course using computers for students having no previous keyboarding instruction or a speed of less than 30 words a minute. To pass the course students must keyboard above 30 words a minute for three minutes with no more than three errors. Prerequisite: None.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

**ITAP 26611 SPREADSHEET
APPLICATIONS**

Use of electronic spreadsheets from beginning to advanced applications that may prepare for software certification. Lecture 2 hours. Lab 2 hours. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

ITAP 26613 MACHINE TRANSCRIPTION

Basic transcription of machine dictation, application of language skills to typical and specialized office documents; and mastery of proofreading/editing procedures and techniques. Prerequisite: ITAP 16620.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

ITAP 26622 DESKTOP PUBLISHING I

Study and application of the principles of proper document design using high-end desktop publishing software for newsletters, brochures, reports, forms and other computer-based business documents. Lecture 2 hours, lab 2 hours. Prerequisite: ITAP 16620.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

ITAP 26623 DESKTOP PUBLISHING II

High-end layout/design and illustration software. Includes advanced documents, Web publishing, makeovers, computer graphic concepts and formatting, image editing techniques and the use of color. Lecture 1 hour, lab 4 hours. Prerequisite: ITAP 26622.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

**ITAP 26635 ADMINISTRATIVE
RESOURCE MANAGEMENT**

Explores how office professionals can apply resource management skills to the areas of space/workflow, forms, budgetary control, staff and materials supplies. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

**ITAP 26636 PROJECT MANAGEMENT
FOR ADMINISTRATIVE
PROFESSIONALS**

Provides the basic tools needed to effectively manage projects and to automate and streamline such functions as resource allocation, work scheduling and communication. Project management



software is used in the course. Lecture .5 hours lab, 1 hour. Prerequisite: None.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

ITAP 26637 SPECIALIZED MACHINE TRANSCRIPTION

Transcription of machine dictation emphasizing documents relating to the legal or medical professions. Includes application of language skills and mastery of proofreading/editing procedures and techniques. Prerequisite: ITAP 16620.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

ITAP 26638 BUSINESS COMMUNICATIONS

Theory and application of oral and written business communication with emphasis on business letters, reports, employment process, visual presentations and electronic communications. Basic word processing skills are suggested. Prerequisite: ENG 11011 or HONR 10197.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

ITAP 26650 MEDICAL BILLING PROCEDURES

Introductory course in the preparation of various medical documents and forms in the health care industry. Use of computers and various word processing software will be included. Lecture 2 hours, lab 2 hours. Prerequisite: none.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

ITAP 26651 MEDICAL BILLING TERMINOLOGY

Analysis of the language and terms used in medical billing environments. The medical billing context is used to frame the study of prefixes, suffixes and root words by specialty. Prerequisite: None.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

Course Attributes: TAG Health

ITAP 26655 ICD CODING

Basic medical coding using the current version of the ICD classification system and nomenclature. Prerequisite: ITAP 26651 or HED 14020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

ITAP 26656 CPT CODING

Introduction to coding rules for the CPT and Level II coding systems, incorporating and applying ICD rules to code patient services.

Prerequisite: ITAP 26655.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

ITAP 26691 SEMINAR FOR ADMINISTRATIVE PROFESSIONALS

Refines job search strategies, integrates coursework with realistic office settings, presents interpersonal/ethical issues and provides outreach activities, emphasizing the total quality management environment. Prerequisite: Sophomore standing.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Regional College

ITAP 26692 INTERNSHIP FOR ADMINISTRATIVE PROFESSIONALS

Supervised field experience of ten hours per week paid or seven hours per week unpaid in a business environment functioning as an administrative professional. Repeatable for a total of 4 hours. Prerequisite: Sophomore standing and 2.00 GPA or better in major and special approval.

1.000 TO 3.000 Credit hours

7.000 TO 21.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Regional College

ITAP 26695 SPECIAL TOPICS IN INFORMATION TECHNOLOGY FOR ADMINISTRATIVE PROFESSIONALS

Special topics in information technology topics for administrative professionals. Repeated registration permitted.

Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

ITAP 26696 INDIVIDUAL INVESTIGATION: INFORMATION TECHNOLOGY FOR ADMINISTRATIVE PROFESSIONALS

Independent, in-depth research of an ITAP topic supervised and coordinated by an ITAP faculty member. Prerequisite: 12 credit hours of ITAP courses and special approval of a full-time ITAP faculty member.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Regional College

Instructional Technology (ITEC)

ITEC 19525 EDUCATIONAL TECHNOLOGY

Identification, evaluation, design, preparation and efficient use of education technology as instructional resource in classroom relating to principles of learning teaching. Develop classroom communication abilities through lectures, discussions, modeling, lab experiences, completion of comprehensive project.

Prerequisites: EDPF 29535 with minimum C grade; and admission to one of the following majors: earth science (ESCI), integrated language arts (INLA), integrated mathematics (IMTH), integrated science (ISCI), integrated social studies (INSS), life science (LFSC), life science chemistry (LSCM), physical science (PHSC), school health education (SHED), early childhood education (ECED), middle childhood education (MCED), gifted (GFTD), intervention specialist (INSP), integrated business education (IBED), family and consumer sciences education (FCSE), marketing education (MKT), art education (ARTE), music education (MUED) or early childhood education technology (ECET).

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

Course Attributes: TAG Education

ITEC 40093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL MEDIA

Variable topic workshop designed to respond to curriculum trends and issues and specialized needs. S u graded.

Prerequisite: Permission.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

ITEC 47411 DESIGNING VISUALS FOR INSTRUCTION

Investigation of historical, cultural, aesthetic dimensions of instructional visual design. Focus on design of instructional visuals across media including print, video, computer-based technology. Presentations lab activities. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 47413 DIGITAL VIDEO IN EDUCATION

Design/production of instructional TV programming. Planning and scripting techniques. Hands-on experience with TV equipment. Students will digitize video footage, learn nonlinear editing techniques,



export productions to tape/CD. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 47427 TECHNOLOGY AND LEARNING

Overview of technology used in education. Focuses on implementing and facilitating learner- centered curriculum with computer technology. Students develop web-based instructional materials. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 47430 COMPUTER APPLICATIONS IN EDUCATION

Preparation for use of computers effectively in variety of educational settings. Students should have some expertise with computers. Focus on advanced applications in education. Macintosh and Windows. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 47495 SPECIAL TOPICS:EDUCATIONAL MEDIA

Specialized offering in response to emerging or selected program needs in educational media and instructional design. Prerequisite: none.

1.000 TO 5.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 47496 INDIVIDUAL INVESTIGATION IN EDUCATIONAL MEDIA

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a faculty member.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

ITEC 50093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL MEDIA

Prerequisite: Grading standing and special approval.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

ITEC 57400 SELECTION AND UTILIZATION OF EDUCATIONAL MEDIA

Discusses principles and techniques in the selection and utilization of media for instructional purposes. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 57402 ORGANIZATION AND ADMINISTRATION OF EDUCATIONAL MEDIA PROGRAMS AND CENTERS

Examines the planning, organizing, administering and evaluating of educational media programs and centers. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 57411 DESIGNING VISUALS FOR INSTRUCTION

Investigation of historical, cultural, aesthetic dimensions of instructional visual design. Focus on design of instructional visuals across media, including print, video, computer-based technology. Presentations, lab activities. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 57413 DIGITAL VIDEO IN EDUCATION

Design/production of instructional TV programming. Planning and scripting techniques. Hands-on experience with TV equipment. Students will digitize video footage, learn nonlinear editing techniques, export productions to tape/CD. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 57427 TECHNOLOGY AND LEARNING

Overview of technology used in education. Focuses on implementing and facilitating learner- centered curriculum with computer technology. Students develop web-based instructional materials. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 57430 COMPUTER APPLICATIONS IN EDUCATION

Preparation for use of computers effectively in variety of educational settings. Students should have some expertise with computers. Focus on advanced applications in education. Macintosh and Windows. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 60199 THESIS I

Master of arts students must register for at least one semester of Thesis I under the supervision of an adviser. Prerequisite: Grading standing and special approval.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Lifespan Development and Educational Sciences

ITEC 60299 THESIS II

If 6 credits of Thesis I have been completed, M.A. students must continue to register each semester under Thesis II until all degree requirements are met.

Prerequisite: ITEC 60199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Lifespan Development and Educational Sciences

ITEC 67403 INSTRUCTIONAL DESIGN

Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67410 SIMULATION-GAMES IN EDUCATION

Provides students with opportunities to explore simulation and games as a strategy for learning. Experiences in both group role-playing simulations and computer simulations will be included. Prerequisite: Graduate standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences



ITEC 67412 INSTRUCTIONAL TECHNOLOGY IN SECONDARY SCHOOLS

This course provides activities appropriate to develop the skills necessary for using educational technology in the secondary school setting. Students will develop an understanding of how technology is used to solve a variety of problems in secondary school teaching. Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67415 UTILIZING TELEVISION IN THE CLASSROOM

Explores the utilization of instructional and commercial television in the classroom.

Prerequisite: Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67417 ADVANCED INSTRUCTIONAL DESIGN

Compares selected models of instructional design and discusses their advantages and disadvantages for designing instruction.

Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67420 RESEARCHING CURRENT ISSUES IN INSTRUCTIONAL TECHNOLOGY

Exploration of significant current issues in the field of instructional technology, including latest research findings, use of newest technologies, instructional design issues, present state of the field and future directions. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67425 MANAGING TECHNOLOGICAL CHANGE

Analysis and evaluation of change process are explored, particularly as they relate to use of instructional technology.

Management role for facilitating planned change as studied through communication and management models. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67426 NETWORKING BASIC FOR EDUCATORS

Provides an overview of networking, including client hardware and software typically found in school settings. Topics include networking design, protocols, software and hardware, wireless networking, security and acceptable use, management strategies, desktop client and server configurations, and professional issues for network administrators. Intended for those seeking licensure as K-12 computer/technology coordinators.

Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67432 DESIGNING MULTIMEDIA FOR INSTRUCTION

Focuses on the design, production and evaluation of computer-assisted instructional materials. Instructional design and research are applied to the development of software. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67434 EMERGING TECHNOLOGIES

Focus on theoretical foundations, design and development of instructional delivery systems employing leading-edge or emergent technologies. Specific technologies include multimedia, interactive Web-based instruction. Presentations, lab. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67435 VIRTUAL REALITY

Virtual reality provides promise as a tool for educators. Students will learn to create and evaluate instructional applications. Activities will include actual production of virtual worlds as well as virtual experiences on the Internet. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67436 DISTANCE EDUCATION

This course explores various approaches to delivering instruction to distant sites and examines a variety of critical issues, such as planning, choice of technology, cost, teaching strategies, evaluation, etc.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67437 WEB DEVELOPMENT FOR EDUCATORS

Provides an overview of basic website development and management in educational settings. Topics include HTML, cascading style sheets, dynamic webpages and database integration. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67438 INSTRUCTIONAL APPLICATIONS OF THE INTERNET

Provides knowledge and skills needed to use the Internet effectively in instruction at all levels. Two major concentrations are computer-mediated communications and instructional Web site development.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67439 PORTFOLIO REVIEW

Students modify projects and products developed in earlier courses to ensure highest quality. Students present results to faculty to show expertise in instructional design, virtual design, multimedia and World Wide Web development.

Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67442 DESIGNING ONLINE COURSES

Online learning and teaching present new challenges for designing high quality instructional experiences for students. This course enables students to design and develop effective online educational materials, interactions and discourses to increase learning in online settings.

Students design and develop online materials. Course is presented online.

Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 67444 TEACHING ONLINE COURSES

Course explores using pedagogical approaches appropriate to online learning, including facilitating synchronous and



asynchronous discussions, facilitating embedded assessment, enhancing online interactivity, collaboration and community and incorporating self-directed learning. Students discuss, analyze and use these strategies in online teaching and learning. Course is presented online. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 67449 RESEARCH IN ONLINE LEARNING

Course reviews current research issues in online teaching and learning and explores potential new areas of research. Students engage in guided inquiry to identify, understand, apply and critique current research in online learning and to discover and construct new areas. Students participate in a constructive online learning environment. Course is presented online. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 67491 SEMINAR:EDUCATIONAL MEDIA

Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice. Prerequisite: Graduate standing.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

ITEC 67492 ADVANCED PRACTICUM AND INTERSHIP IN INSTRUCTIONAL TECHNOLOGY

Supervised program requiring application of theory and practice in instructional technology in either school or nonschool settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing.
1.000 TO 10.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

ITEC 67495 SPECIAL TOPICS IN EDUCATIONAL MEDIA

Specialized offering in response to emerging or selected program needs in instructional technology. Prerequisite: Graduate standing.
1.000 TO 5.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 67496 INDIVIDUAL INVESTIGATION IN INSTRUCTIONAL TECHNOLOGY

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. Prerequisite: Graduate standing and special approval.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Lifespan Development and Educational Sciences

ITEC 67498 INDEPENDENT RESEARCH IN INSTRUCTIONAL TECHNOLOGY

Students pursue an individualized research project on a specialized topic with approval and under direction of instructor. Prerequisite: graduate standing.
1.000 TO 5.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Lifespan Development and Educational Sciences

ITEC 70093 VARIABLE TITLE WORKSHOP IN EDUCATIONAL MEDIA

Prerequisite: Doctoral standing and special approval.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Lifespan Development and Educational Sciences

ITEC 77403 INSTRUCTIONAL DESIGN

Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77410 SIMULATION-GAMES IN EDUCATION

Provides students with opportunities to explore simulation and games as a strategy for learning. Experiences in both group role-playing simulations and computer simulations will be included. Prerequisite: Doctoral standing and special approval.
3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77411 DESIGNING VISUALS FOR INSTRUCTION

Investigation of historical, cultural, aesthetic dimensions of instructional visual design. Focus on design of instructional visuals across media including print, video, computer based-technology. Presentations lab activities. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77415 UTILIZING TELEVISION IN THE CLASSROOM

Explores the utilization of instructional and commercial television in the classroom. Prerequisite: Doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77417 ADVANCED INSTRUCTIONAL DESIGN

Compares selected models of instructional design and discusses their advantages and disadvantages for designing instruction. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77420 RESEARCHING CURRENT ISSUES IN INSTRUCTIONAL TECHNOLOGY

Exploration of significant current issues in the field of instructional technology, including latest research findings, use of newest technologies, instructional design issues, present state of the field and future directions. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77425 MANAGING TECHNOLOGICAL CHANGE

Analysis and evaluation of change process are explored, particularly as they relate to use of instructional technology. Management role for facilitating planned change as studied through communication and management models. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77426 NETWORKING BASIC FOR EDUCATORS

Provides an overview of networking, including client hardware and software typically found in school settings. Topics include networking design, protocols, software and hardware, wireless networking, security and acceptable use, management strategies, desktop client and server configurations, and professional issues for network administrators. Intended for those seeking licensure as K-12 computer/technology coordinators. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77432 DESIGNING MULTIMEDIA FOR INSTRUCTION

Focuses on the design, production and evaluation of computer-assisted instructional materials. Instructional design and research are applied to the development of software. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77434 EMERGING TECHNOLOGIES

Focus on theoretical foundations, design and development of instructional delivery systems employing leading-edge or emergent technologies. Specific technologies include multimedia, interactive Web-based instruction. Presentations; lab. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77435 VIRTUAL REALITY

Virtual reality provides promise as a tool for educators. Students will learn to create and evaluate instructional applications. Activities will include actual production of virtual worlds as well as virtual experiences on the Internet. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77436 DISTANCE EDUCATION

This course explores various approaches to delivering instruction to distant sites and examines a variety of critical issues, such

as planning, choice of technology, cost, teaching strategies, evaluation, etc. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77437 WEB DEVELOPMENT FOR EDUCATORS

Provides an overview of basic website development and management in educational settings. Topics include HTML, cascading style sheets, dynamic webpages and database integration. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77438 INSTRUCTIONAL APPLICATIONS OF THE INTERNET

Provides knowledge and skills needed to use the Internet effectively in instruction at all levels. Two major concentrations are computer-mediated communications and instructional Web site development. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77442 DESIGNING ONLINE COURSES

Online learning and teaching present new challenges for designing high quality instructional experiences for students. This course enables students to design and develop effective online educational materials, interactions and discourses to increase learning in online settings. Students design and develop online materials. Course is presented online. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77444 TEACHING ONLINE COURSES

Explores using pedagogical approaches appropriate to online learning, including facilitating synchronous and asynchronous discussions, facilitating embedded assessment, enhancing online interactivity, collaboration and community and incorporating self-directed learning. Students discuss, analyze and use these strategies in online teaching and learning. Course is presented online. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77449 RESEARCH IN ONLINE LEARNING

Course reviews current research issues in online teaching and learning and explores potential new areas of research. Students engage in guided inquiry to identify, understand, apply and critique current research in online learning and to discover and construct new areas. Students participate in a constructive online learning environment. Course is presented online. Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77450 LEARNING WITH INSTRUCTIONAL TECHNOLOGIES

Accompanies the Educational Psychology doctoral seminar EPSY 77450: Psychological Principles of Education. Doctoral students are required to take both courses simultaneously. In this ITEC course, students address how technologies can most effectively be used to enhance instruction, based upon current findings about the learning process. Students are also required to develop a research project, which utilizes technology to test theories about learning and instruction. Prerequisite: graduate standing. Corequisite: EPSY 77450. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

ITEC 77491 SEMINAR: EDUCATIONAL MEDIA

Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice. Prerequisite: Doctoral standing. 1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

ITEC 77492 ADVANCED PRACTICUM AND INTERNSHIP IN INSTRUCTIONAL TECHNOLOGY

Supervised program requiring application of theory and practice in instructional technology in either school or nonschool settings. Planned with and directed by a graduate faculty member. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the



semester in which student teaching/ internship will take place. Prerequisite:

Doctoral standing.

1.000 TO 10.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

ITEC 77495 SPECIAL TOPICS IN EDUCATIONAL MEDIA

Specialized offering in response to emerging or selected program needs in instructional technology. Prerequisite: Doctoral standing.

1.000 TO 5.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

ITEC 77496 INDIVIDUAL INVESTIGATION IN INSTRUCTIONAL TECHNOLOGY

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. Prerequisite: Doctoral standing and special approval.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

ITEC 77498 INDEPENDENT RESEARCH IN INSTRUCTIONAL TECHNOLOGY

Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

Prerequisite: doctoral standing.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences

Japanese (JAPN)

JAPN 15101 ELEMENTARY JAPANESE I

Introduction to modern standard Japanese in the context of Japanese culture.

Prerequisite: None.

5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 15102 ELEMENTARY JAPANESE II

A continuation of the introduction to modern standard Japanese in the context of Japanese culture. Prerequisite: JAPN 15101.

5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 25201 INTERMEDIATE JAPANESE I

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: JAPN 15102.

5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 25202 INTERMEDIATE JAPANESE II

Continuation of JAPN 25201. Prerequisite: JAPN 25201.

5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 30095 SPECIAL TOPICS

Topic to be announced in schedule of classes. Prerequisite: Permission.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 35101 ADVANCED INTERMEDIATE JAPANESE I

A continuation of the study of modern standard Japanese in the context of Japanese culture. Further development of listening, speaking, reading and writing skills using a variety of materials.

Prerequisite: JAPN 25202.

5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 35102 ADVANCED INTERMEDIATE JAPANESE II

Continuation of JAPN 35101. Prerequisite: JAPN 35101.

5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 45096 INDIVIDUAL INVESTIGATION IN JAPANESE

Individual study supervised by a faculty member on an approved topic dealing with Japanese language and/or culture. Prerequisite: JAPN 25201.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Modern and Classical Language Studies

JAPN 45201 ADVANCED JAPANESE I

Advanced study of the four language skills, with particular emphasis on general conversational proficiency and reading of authentic texts to enhance linguistic and cultural competence. Prerequisite: JAPN 35102.

5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 45202 ADVANCED JAPANESE II

Continuation of JAPN 45201. Prerequisite: JAPN 45201.

5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 45301 BUSINESS JAPANESE

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

Prerequisite: JAPN 35102.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 45421 JAPANESE CULTURE

Explores key aspects of traditional and contemporary Japanese culture. Taught in English; no knowledge of Japanese necessary. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical Language Studies

JAPN 45591 VARIABLE TOPIC SEMINAR IN JAPANESE

Seminar in Japanese literature or culture; course may be repeated when content varies. Student should have completed at least 9 hours of upper division work in Japanese. Prerequisite: special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Modern and Classical Language Studies

JAPN 55301 BUSINESS JAPANESE

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

JAPN 65001 GRADUATE RESEARCH AND WRITING IN JAPANESE

Individual instruction and assistance with problems encountered in academic research and writing in Japanese. Required of all graduate students in their first fall semester of graduate work. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

JAPN 65010 THE PRACTICE OF JAPANESE TRANSLATION

Provides an introduction to the translation of non-specialized, non-fiction Japanese texts, focusing on common problem areas, general translation strategies, and specific techniques for resolving problems. Prerequisite: Graduate standing. Corequisite: TRST 60010.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
JAPN 65091 SEMINAR
Topic announced in schedule of classes; may be repeated when content varies. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Modern and Classical
Language Studies

JAPN 65098 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves. Repeat registration permitted. Prerequisite: Graduate standing and departmental approval.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Modern and Classical
Language Studies

JAPN 65240 LITERARY AND CULTURAL TRANSLATION

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

JAPN 65250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

JAPN 65251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

JAPN 65979 CASE STUDY IN TRANSLATION

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

Journalism and Mass Communication (JMC)

JMC 12001 ELEMENTARY PHOTOGRAPHY

Introduction to fundamentals and techniques of still and motion picture photography. Terminal course for students who do not have photography requirements. Prerequisite: None.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 20001 MEDIA, POWER AND CULTURE

Fosters critical understanding of mass media in their historical, ideological, economic and cultural contexts. Examines what forces influence media and how media influence consumers. Not open to journalism and mass communication pre-majors or majors. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Journalism and Mass
Communications
Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, Transfer Module-Social Sciences

JMC 20003 INTRODUCTION TO MASS COMMUNICATION

Introduction to various fields of mass communication with a particular emphasis on evolution of new media technologies. History of technological and cultural change leading to the present media forms and consideration of new media. Prerequisite: Journalism and mass communication (JMC) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 20004 MEDIA WRITING

Introduces students to variety of writing skills used in various media professions and demonstrates how writing types vary by audience. Incorporates grammar skills as part of the writing process. JMC majors must earn a B- (2.70) or better to move on in their major. Failure to earn a B- (2.70) or better after two attempts are not permitted to continue in the journalism and mass communication program. Pre/corequisite: JMC 20003 with a grade of C- (1.7) or better.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass
Communications

JMC 20005 FUNDAMENTALS OF MEDIA MESSAGES

Working with messages for print, broadcast, electronic and new media outlets. Course may not be taken for credit nor applied toward any requirements by a journalism and mass communication (JMC) major. Prerequisite: Communication studies (COMM) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 20006 MULTIMEDIA TECHNIQUES

Introduction to basic elements of multimedia journalistic storytelling, including the creation of audio, video, slideshows and multimedia packages for distribution via the Internet. Prerequisite: JMC major; and JMC 20003.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab



Department: Journalism and Mass Communications

JMC 20007 MEDIA INFORMATION GATHERING

Introduction to basic methods of gathering information in various fields of mass communication. Hands-on experience with qualitative, archival and quantitative methods. Methods include interviews, online searching and surveys. Prerequisite: 2.75 overall GPA and JMC 20003 with a grade of C- (1.7) or better.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Journalism and Mass Communications

JMC 20008 AUDIENCE ANALYSIS AND RESEARCH

An overview of the principles used to understand, interpret and design audience research. This includes terminology methodologies of syndicated research, audience ratings analysis and psychographic lifestyle data. Prerequisite: 2.75 cumulative GPA; minimum grade of C- (1.7) in JMC 20003 and 21001; minimum grade of B- (2.7) in JMC 20004; passage of the Grammar Usage and Punctuation (GUP) test with a 70% or better; and a journalism and mass communication (JMC) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 21001 PRINCIPLES OF ADVERTISING

Advertising history, purposes, techniques, media and research; analysis of functions of advertising organizations. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 21005 ADVERTISING MESSAGING

Introduces students to the history and development of 19th- to 21st-century advertising practices, along with a strong emphasis on college level writing skills. Prerequisites: 2.75 cumulative GPA; minimum grade of C- (1.7) in JMC 20003 and JMC 21001; minimum grade of B- (2.7) in JMC 20004; and advertising (ADV) major or minor.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 22000 PHOTOGRAPHY BASICS

Fundamentals of b/w and color photography and digital manipulation software. Introduction of basic themes of journalistic photography including flash photography. Student furnishes 35mm or APS camera with flash. Disposable cameras not acceptable. Prerequisite: 2.75 overall GPA; integrated language arts (INLA), electronic media (ELMD) or news (NEWS) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 22001 PHOTOGRAPHY

Basic camera and digital techniques to provide a better understanding of photography as a creative and journalistic skill. Prerequisite: art education (ARTE) or visual journalism (VJNL) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

Course Attributes: TAG Communication

JMC 22002 VIDEOGRAPHY BASICS

Instruction in basic camcorder videography video editing techniques to provide understanding of processes as creative journalistic skills and as practical application of knowledge acquired in the prerequisite class. Prerequisites: journalism and mass communication (JMC) or integrated language arts (INLA) or visual communication and design (VCD) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 22003 VIDEOGRAPHY BASICS II

Emphasis on video editing for broadcast news and electronic media production applications using computer video editing skills. Prerequisite: 2.75 overall GPA; and journalism and mass communication (JMC) major and JMC 22002 with a grade of C- (1.7) or better.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 22004 VISUAL STORYTELLING

Technical and digital skills needed to produce photos that communicate. Course will stress narrative work, detailed caption information and reporting. Prerequisite: 2.75 cumulative GPA; JMC 22001 or VCD 28000; and journalism and mass communication (JMC) or visual communication design (VCD) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 23001 INTRODUCTION TO GRAPHIC COMMUNICATIONS

Concepts and practices of transferring information graphically, whether it be picture or symbol in single or multiple copies onto paper, cloth, metal, plastic, glass or other materials. Prerequisite: 2.75 overall GPA; and ENG 21011 or HONR 10297.

2.000 OR 3.000 Credit hours

2.000 OR 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 23030 BASIC ELECTRONIC MEDIA VIDEO PRODUCTION

Theoretical and practical application of program production for video. Prerequisite: 2.75 overall GPA; and JMC 20003 and 22002 with a grade of C- (1.7) or better; and JMC 20004 with a grade of B- (2.7); and a score of at least 70% on the Grammar, Usage and Punctuation (GUP) test; and journalism and mass communication (JMC) major.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Journalism and Mass Communications

JMC 23031 BASIC ELECTRONIC MEDIA AUDIO PRODUCTION

Theoretical and practical application of program production for audio production. Prerequisite: 2.75 overall GPA; and JMC 20003 and JMC 22002 with a grade of C- or better; and JMC 20004 with a grade of B- or better; and a score of at least 70 percent on the Grammar, Usage and Punctuation (GUP) Test.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Journalism and Mass Communications

JMC 26001 NEWSWRITING

Theory and practice in writing basic print and electronic news and feature stories. Prerequisite: 2.75 overall GPA; and a grade of B- (2.7) or better in JMC 20004; and a grade on C- (1.7) or better in JMC 20006; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test; and journalism and mass communication (JMC) or integrated language arts (INLA) major.

3.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory



Department: Journalism and Mass Communications

JMC 26007 PRINT BEAT REPORTING

Gathering and writing news: interviewing techniques, cultivating sources, developing beats, meeting deadlines. Includes campus reporting for Daily Kent Stater. Prerequisite: 2.75 overall GPA and JMC 26001 with a grade of C- (1.7) or better and journalism and mass communication (JMC) major. 3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass Communications

JMC 26008 BROADCAST BEAT REPORTING

Writing news, developing sources and beats, meeting deadlines as they relate to electronic media. Includes reporting campus news for daily broadcasts. Prerequisite: 2.75 overall GPA and JMC 22002 and 26001 with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. 4.000 Credit hours
4.000 Lecture hours
0.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass Communications

JMC 28001 PRINCIPLES OF PUBLIC RELATIONS

Explores strategic role and function of public relations in business, nonprofit public institutions and society. Covers public relations practice from development to present. Prerequisite: None. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 30004 WRITING FOR ELECTRONIC MEDIA

Application of standard writing styles and formats in the electronic media. Writing practice in commercials, continuity, promotions and introductory scriptwriting techniques. Prerequisite: 2.75 overall GPA; and a grade of B- (2.7) or better in JMC 20004; and journalism and mass communication (JMC) major; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test. 2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 30030 MASS MEDIA RESEARCH

Analysis of mass media research emphasizing quantitative social science inquiry, and media applications leading to

practical and critical understanding of research. Prerequisite: 2.75 overall GPA; and JMC 20003 with a grade of C- (1.7) or better and MATH 11009; and journalism and mass communication (JMC) major. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 30034 PROGRAMMING FOR ELECTRONIC MEDIA

Background analysis of radio, TV, cable and Internet programming and the relationship to audience needs, interests, expectations and audience measurement procedures. Prerequisite: 2.75 overall GPA; and a grade of B- (1.7) or better in JMC 20004; and journalism and mass communication (JMC) major; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 31002 ADVERTISING COPYWRITING

Examination and practice in various forms of advertising copywriting and their applications. Prerequisites: 2.75 cumulative GPA; minimum grade of B- (2.7) or better in JMC 20004; minimum grade of C- (1.7) in JMC 21001 and 31011; passage of the Grammar Usage and Punctuation (GUP) test with a 70% or better; and a journalism and mass communication (JMC) major. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 31003 ADVERTISING MEDIA PLANNING

Analysis, selection and scheduling of advertising media. Examination of advertising research, technique and application. Prerequisite: 2.75 cumulative GPA; minimum grade of C- (1.7) in JMC 20008 and 21001; minimum grade of B- (2.7) in JMC 20004; passage of the Grammar Usage and Punctuation (GUP) test with a 70% or better; and a journalism and mass communication (JMC) major. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 31011 CREATIVE ADVERTISING STRATEGIES

Ad majors learn problem-solving techniques, which they will apply to business and creative proposals designed to promote products and or services.

Development of good, clear writing skills is a key component of the course. Prerequisite: 2.75 overall GPA; and a grade of B- (2.7) or better in JMC 20004; and JMC 21001 with a grade of C- (1.7) or better. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 32001 PHOTOJOURNALISM I

Production of photographs for newspapers, magazines and online news media. A laboratory course emphasizing color and black and white photography. Prerequisites: 2.75 overall GPA; and minimum B- (2.7) grade in JMC 20004; and minimum C- (1.7) grade in JMC 22001 and VCD 37000; and minimum C- (1.7) in JMC 22004; and journalism and mass communication (JMC) major; and minimum 70% score on the Grammar Usage and Punctuation (GUP) test. 3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass Communications

JMC 32002 PHOTOJOURNALISM II

Continuation of JMC 32001. Advanced news and feature photography for newspapers, magazines and online including a collaborative project. May be repeated once. Prerequisite: 2.75 overall GPA and JMC 32001 with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 32003 PHOTO TECHNOLOGY

Photographic materials and processes. Emulsion sensitometry (applied as the "zone system"). Photographic lens testing, etc. Camera and hand-held exposure meter needed. Prerequisite: 2.75 overall GPA; JMC 22001 and journalism and mass communication (JMC) major. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 32004 ADVANCED PHOTOGRAPHY

Use of specialized equipment, materials and techniques. Student furnishes own view camera. Special equipment furnished. Prerequisite: 2.75 overall GPA; and JMC 22001 and 32002 and journalism and mass communication (JMC) major. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate



Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 32005 VIDEO FOR STILL PHOTOGRAPHERS

Teaches video skills for photojournalists, including interviewing, establishing a narrative, editing, and how video is paired with the written story. Prerequisites: JMC major; and 2.75 overall GPA; JMC 20004 with a grade of B- or better; JMC 22004 with a grade of C- or better; Passage of the JMC Grammar, Usage and Punctuation Test.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 32008 PHOTO-DESIGN TECHNIQUES

Use of unusual photographic materials and techniques in design of images for many purposes. Prerequisite: 2.75 overall GPA; and JMC 22001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 33024 PERFORMANCE FOR ELECTRONIC MEDIA

Development of effective communication techniques in performance situations for electronic media. Prerequisite: 2.75 overall GPA and JMC 20003 with a grade of C- (1.7) or better.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 33032 AUDIO STUDIO PRODUCTION

Production of in-studio audio programming units, with laboratory unit required as part of course. Prerequisite: 2.75 overall GPA; and JMC 23031 with a grade of C- (1.7) or better; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test and a journalism and mass communication (JMC) major.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 33033 AUDIO FIELD PRODUCTION

A study of the theory and craft of audio field production, providing analysis and practice of remote information gathering techniques and music recording. Prerequisite: 2.75 overall GPA; and JMC 23031 with a grade of C- (1.7) or better; and a journalism and mass communication (JMC) major; and a

score of at least 70% on the Grammar Usage and Punctuation (GUP) test .

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 33036 BASIC MEDIA ENGINEERING

Introduction to basic electronic media technology and systems, providing knowledge and vocabulary to allow communication with broadcast engineers. Overview of radio/TV operations and legal viewpoint. Prep for SBE operators' cert. Exam. Prerequisite: 2.75 overall GPA; and MATH 11009; and JMC 23030 with a grade of C- or better and JMC 23031 with a grade of C- or better; and a journalism and mass communication (JMC) major; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test .

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 33042 VIDEO STUDIO PRODUCTION

Study of producing and directing various types of video studio programs. Two hours lecture two hours lab. Prerequisite: 2.75 overall GPA; and JMC 23030 with a grade of C- (1.7) or better; and pre/corequisite JMC 30004 with a grade of C- (1.7) or better; and a journalism and mass communication (JMC) major.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 33043 VIDEO FIELD PRODUCTION

Producing programs and packages with portable video equipment outside the studio. Editing program material. Two hours lecture three hours lab. Prerequisite: 2.75 overall GPA; and JMC 22002 and 22003 and 23030 all with a grade of C- (1.7) or better; and a journalism and mass communication (JMC) major; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test .

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 33092 RADIO-TELEVISION OPERATIONS

Performance of assigned activities in radio or television under faculty supervision. May be repeated for up to 3 hours. Prerequisite: 2.75 overall GPA; and JMC 20003 with a grade of C- (1.7) or better; and sophomore standing and special approval.
1.000 TO 3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 34038 MEDIA SALES AND SALES MANAGEMENT

Selling techniques in electronic and print media; sales policies procedures rate card structure sales proposals and related promotional aspects. Prerequisite: 2.75 overall GPA; and JMC 30034 or 31003 either with a grade of C- (1.7) or better; and journalism and mass communication (JMC) major.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 34050 PROMOTIONS FOR ELECTRONIC MEDIA

Fundamentals and latest trends in broadcast and cable promotion, including branding advertising and marketing. Prerequisite: 2.75 overall GPA; JMC 20008 and journalism and mass communication (JMC) major.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications

JMC 36005 COPYEDITING

Improving the writing of other journalists and writing headlines. Intensive review of APA style and grammar. Prerequisite: 2.75 overall GPA and JMC 26001 with a grade of C- (1.7) or better.

3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass
Communications

JMC 38002 PUBLIC RELATIONS CASE STUDIES

Explores the process and the practice of public relations through review and analysis of actual case studies. Students also learn pr process by planning and preparing their own case study projects for a real world client organization. Prerequisite: 2.75 overall GPA; and a grade of B- (2.7) or better in JMC 20004; and JMC 28001 with a grade of C- (1.7) or better and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass
Communications



JMC 40002 REPORTING FOR MASS MEDIA

Theory and practice in news writing and reporting; news values and news judgment lead and story development techniques of gathering information and dealing with sources of news writing for deadline. Course may not be taken for credit or applied toward any requirements by a Journalism and Mass Communication (JMC) major or minor without special approval. Prerequisite: 2.75 GPA and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40003 EDITING FOR MASS MEDIA

Theory and practice in copy editing, headline writing and editing photographs and information graphics for print and on-line publications. Hours do not count toward degree. Prerequisite: 2.75 overall GPA and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40004 COMPUTER ASSISTED REPORTING

Computer analysis of large data sets, focusing on government court police records for preparation of news stories basics of online searching software and databases. Prerequisite: 2.75 overall GPA; and JMC 26007 or 26008 either with a grade of C- (1.7) or better.

3.000 Credit hours

3.000 Lecture hours

0.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Journalism and Mass Communications

JMC 40006 LAW OF MASS COMMUNICATION

Libel and slander; privacy copyright obscenity regulation of advertising broadcasting and corporate speech access to government legal; problems of new media. See your adviser for major specific prerequisite courses. Prerequisite: 2.75 overall GPA; and journalism and mass communication (JMC) major and senior standing and special approval needed from department.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40007 REVIEWING THE ARTS

Reviewing and criticizing of performing, visual and literary arts. Emphasis on books, film, TV and theatre. Prerequisite: 2.75

overall GPA; and a grade of B- (2.7) or better in JMC 20004 or JMC 26001 with a grade of C- (1.7) or better; and junior or senior standing.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40008 HISTORY OF AMERICAN MASS COMMUNICATION

Evolution of the American mass communication/media from beginning to present day. Prerequisite: 2.75 overall GPA; and junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40009 COMPARATIVE MEDIA SYSTEMS

Study of the forms, organization scope and modes of operation of media systems in foreign lands. Also examines agents channels and contents of international communication. Prerequisite: 2.75 overall GPA; and junior or senior standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40010 ETHICS AND ISSUES IN MASS COMMUNICATION

Ethical problems and issues in mass communication within a framework of basic theories, functions and social roles of the mass media. Prerequisite: 2.75 overall GPA; and journalism and mass communication (JMC); and senior standing; and at least 18 hours of JMC courses with a C- (1.7) or better, including a grade of B- (2.7) or better in JMC 20004; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

Course Attributes: Writing Intensive Course

JMC 40012 ONLINE JOURNALISM

Study and evaluation of online news and news sites; reporting and writing for online news media design production and maintenance of an online news site ethical legal and economic issues related to online news. Prerequisite: 2.75 overall GPA; and JMC 26007 or 26008 with a grade of C- (1.7) or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40013 TELEVISION SPORTS PRODUCTION

A comprehensive study of the production of live action television. Prerequisite: 2.75 cumulative GPA; and sophomore, junior or senior standing; and journalism and mass communication (JMC) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40015 MEDIA MANAGEMENT

Exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics markets and employees. Prerequisite: 2.75 overall GPA; and a B- (2.7) or better in JMC 20004 and journalism and mass communication (JMC) major and senior standing and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40016 LAW OF ADVERTISING AND PUBLIC RELATIONS

Regulation of advertising and corporate speech; first amendment libel and privacy legal problems of new media. Prerequisite: 2.75 overall GPA; and 18 hours of JMC courses all with a grade of C- (1.7) or better; and JMC 31002 or 31003 or 38002 with a grade of C- (1.7) or better; and advertising (ADV) or public relations (PR) majors.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40020 AUDIO AND STILL PHOTO PROD

Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio.

Prerequisite: 2.75 overall GPA; and minimum grade of C- (1.7) in JMC 22001 and journalism and mass communication (JMC) major and junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40022 FILM AS COMMUNICATION

Study of the relationship of television and theatre films to the mass audience in terms of components and effects. Prerequisite:



2.75 overall GPA; and JMC 20004 with a grade of B- (2.7) or better or JMC 20005 with a grade of C- (1.7) or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40023 NON-TRADITIONAL JOURNALISM

The study of journalistic writing that goes beyond the inverted pyramid and traditional feature story and has topics traditionally not defined as news. Students will also work as part of a team on multi-part stories.

Prerequisite: 2.75 overall GPA; and minimum grade of C- (1.7) in JMC 26007 and journalism and mass communication (JMC) major and junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40027 MANAGING MEDIA DIVERSITY

Aspects of diversity and how it changes our environment with emphasis on the field of mass communication. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40030 COLLABORATIVE ONLINE PRODUCING

The use of multimedia and interactive storytelling tools such as video, audio and graphics. Students work in teams to produce packages for online news sites and organizational videos. Prerequisite: 2.75 overall GPA; and minimum grade of C- (1.7) in JMC 40012 and journalism and mass communication (JMC) major and special approval.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Journalism and Mass Communications

JMC 40034 ADVANCED ELECTRONIC MEDIA PROGRAMMING

Program practices in radio, television, cable, film and new media with an emphasis on projects and written proposals regarding program strategies and tactics.

Prerequisite: 2.75 overall GPA and JMC 30034 with a grade of C- (1.7) or better.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40035 TELEVISION GRAPHICS

Basic design, theory and technique in creating and preparing TV and video graphics. Prerequisite: 2.75 overall GPA; and journalism and mass communication (JMC) major and junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40036 NON-LINEAR VIDEO EDITING

Introduction to planning and creating short computer video programs integrating multi-layered digital effects and transitions for application by end users in a variety of current video field formats. Prerequisite: 2.75 overall GPA; and journalism and mass communication (JMC) major and junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40037 SCRIPTWRITING FOR VIDEO AND FILM

The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs.

Prerequisite: 2.75 overall GPA; and JMC 30004 with a grade of C- (1.7) or better; and journalism and mass communication (JMC) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40092 INTERNSHIP

Experience in a professional setting under professional supervision in student's field of specialization. May be repeated once. Prerequisite: 2.75 overall GPA and special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Journalism and Mass Communications

JMC 40095 SPECIAL TOPICS IN JMC

Selected topics of special interest not covered in depth in existing courses; offered as resources permit. Prerequisite: 2.75 overall GPA.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 40096 INDIVIDUAL PROJECTS IN MASS COMMUNICATIONS

Individual research projects in mass communications. Letter grades and ip permissible. Prerequisite: 2.75 overall GPA; junior or senior standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Journalism and Mass Communications

JMC 40099 SENIOR HONORS PROJECT

Thesis or other independent study project in mass communication. Ip grades permissible. Prerequisite: 2.75 overall GPA; open only to journalism and mass communication (JMC) majors admitted to the Honors College.

2.000 TO 4.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Senior Project/Honors Thesis

Department: Journalism and Mass Communications

JMC 40192 RADIO-TELEVISION INTERNSHIP

Experience, under professional supervision in a radio or television station or other industry using electronic audio or video communications. May be repeated once. Prerequisite: 2.75 overall GPA and special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Journalism and Mass Communications

JMC 40193 VARIABLE TITLE WORKSHOP IN JMC

Workshop setting dealing with topics in mass communications. Prerequisite: 2.75 overall GPA and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Journalism and Mass Communications

JMC 40196 INDEPENDENT STUDY IN RADIO AND TELEVISION

Research and writing on topics approved by the students' advisers and study directors. Repeatable for a total of 6 hours.

Prerequisite: 2.75 overall GPA; and junior or senior standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Journalism and Mass Communications

JMC 40295 SPECIAL TOPICS IN COMPUTER LABORATORY

Selected topics of special interest not covered in depth in existing courses;



offered as resources permit. Prerequisite: 2.75 overall GPA and special approval.
1.000 TO 3.000 Credit hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Journalism and Mass Communications

JMC 41002 ADVANCED ADVERTISING COPYWRITING

Advanced copywriting projects in print advertising and corporate communications and execution of the entire print advertising campaigns. Prerequisite: 2.75 overall GPA; and JMC 31002 and 31003 both with a grade of C- (1.7) or better; and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 41003 ADVERTISING ACCOUNT MANAGEMENT

An introduction to advertising account management including the functions of an account manager, skills required to be an account manager and how to effectively lead a team of professionals. Prerequisite: 2.75 overall GPA and JMC 31002 with a grade of C- or better and JMC 31003 with a grade of C- or better.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 41004 BROADCAST COPYWRITING

Application of advertising principles to broadcast media. Emphasis on commercial copy and client relationships. Prerequisite: 2.75 overall GPA; and JMC 30004 or 31002 either with a grade of C- (1.7) or better; and journalism and mass communication (JMC) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 41005 ADVERTISING CAMPAIGNS

Analysis of the planning, financing and execution of an advertising campaign through case study methods. Prerequisite: 2.75 overall GPA; and JMC 31002 and 31003 both with a grade of C- (1.7) or better; and a journalism and mass communication (JMC) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 41081 ADVERTISING PRACTICES

The study of current advertising practices and issues. Prerequisite: 2.75 overall GPA; and JMC 31002 and 31003 with a grade of C- (1.7) or better.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 42005 COLOR PHOTOGRAPHY

Nature of color transparency and negative films. Student produces transparencies and prints for assignments. Photojournalism majors must have a 35mm camera photo illustration majors must have a 4x5 camera. Prerequisite: 2.75 overall GPA; and JMC 32001 with a grade of C- (1.7) or better; and journalism and mass communication (JMC) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 42007 PHOTO-ILLUSTRATION TECHNIQUES

Creative photography for advertising and editorial uses. Assignments made in an art director/ photographer relationship. Critique by professionals in addition to academic evaluation. Prerequisite: JMC 32004 and 42005 with a grade of C- (1.7) or better and journalism and mass communication (JMC) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 42008 ADVANCED PHOTOJOURNALISM

Discussion of contemporary photojournalists and issues. Production of photo documentary multimedia and illustrations appropriate to photojournalism. Senior portfolio review. Prerequisite: 2.75 overall GPA; and JMC 26007 and 32002 both with a grade of C- (1.7) or better.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 42009 FASHION PHOTOGRAPHY

Instruction in studio lighting, filters special effects. Emphasis on editorial and advertising fashion photography. Studio and location assignments. Prerequisites: 2.75 overall GPA; and JMC 42005 with minimum C- (1.7) grade; and JMC 32001 or 32004 with minimum C- (1.7) grade.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 42092 PRACTICUM IN PHOTOGRAPHY

(repeatable for a total of 10 hours) individual or group investigation into student selected areas of photographic field. Prerequisite: 2.75 overall GPA; and junior or senior standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 43035 ADVANCED TELEVISION NEWS PRODUCING

Advanced understanding of how to produce news content for broadcast and the web. Prerequisite: 2.75 overall GPA; and journalism and mass communication (JMC) major and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 43036 RECORD PROMOTION

Class operates as an independent record label to critique, select, promote, publicize and sell original recorded music. Prerequisite: 2.75 overall GPA; and journalism and mass communication (JMC) or communications studies (COMM) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 44040 CONCEPT PSYCHOGRAPHICS

Analysis of media consumers utilizing demographic, attitudinal and lifestyle variables compared with more traditional approaches. Applications for programming advertising and public relations are examined. Prerequisite: 2.75 overall GPA; and a grade of B- (2.7) or better in JMC 20004 and JMC 30034 with a grade of C- (1.7) or better; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 44042 LIVE SPORTS PRODUCTION

The study and broadcast of live sporting events, sports news and sports commentary shows. Hands-on production of such sporting events as basketball, wrestling and gymnastics. Live broadcasts in both studio and remote locations. Prerequisites: 2.75 overall GPA; and JMC 23030 and 23031 with a grade of C- or



better; JMC 30004 as pre- or co-requisite with a grade of C- or better; JMC major; and a score of at least 70% on the Grammar, Usage & Punctuation (GUP) test. Corequisites: JMC 44043 and 45000.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Journalism and Mass

Communications

JMC 44043 SPORTS FIELD PRODUCTION

Video shooting and editing of sports packages and short documentaries. This includes player and coach profiles, highlights and lead-ins. Prerequisites: 2.75 overall GPA and JMC 23030 and 23031 with a grade of C- or better. JMC 30004 as pre or co-requisite with a grade of C- or better. JMC major and a score of at least 70% on the Grammar, Usage & Punctuation (GUP) test. Corequisites: JMC 44042 and 45000.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Journalism and Mass

Communications

JMC 44045 PROMOTIONS FOR ELECTRONIC MEDIA

Fundamental and latest trends in broadcast and cable promotion. Prerequisite: 2.75 cumulative GPA and journalism and mass communication (JMC) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass

Communications

JMC 44050 AUDIO FOR VIDEO

Understanding of the sonic aspects of visual productions including video studio, video field and online applications.

Prerequisite: 2.75 cumulative GPA and journalism and mass communication (JMC) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass

Communications

JMC 45000 TELEVISION SPORTS GRAPHICS PRODUCTION

Techniques in creating and preparing TV and video graphics for live sports events. Prerequisites: 2.75 overall GPA; and JMC 23030 and 23031 with a grade of C- or better. JMC 30004 as a pre- or co-requisite with a grade of C- or better. JMC major and a score of at least 70% on the Grammar, Usage & Punctuation (GUP) test.

Corequisites: JMC 44042 and 44043.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass

Communications

JMC 46000 NEWSPAPER DESIGN

Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing. Prerequisite: 2.75 overall GPA; and JMC 26001; and JMC 22001 or 22000; and VCD 37000 all with a grade of C- (1.7) or better.

3.000 Credit hours

3.000 Lecture hours

0.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Journalism and Mass

Communications

JMC 46001 INFORMATION GRAPHICS

Introduction to shapes, color type and combinations of these for computer designed news graphics maps charts graphs and diagrams. Prerequisite: 2.75 overall GPA; and a grade of B- (2.7) or better in JMC 20004; and VCD 37000 with a grade of C- (1.7) or better; and a journalism and mass communication (JMC) major; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Journalism and Mass

Communications

JMC 46003 PRODUCING TELEVISION NEWS

Introduction to the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling story selection and rundown placement. Prerequisite: 2.75 overall GPA; and minimum grade of C- (1.7) in JMC 26008 and a journalism and mass communication (JMC) major.

3.000 Credit hours

2.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Journalism and Mass

Communications

JMC 46006 EDITORIAL WRITING

Structures and purpose of editorial and column writing; study of editorial section of newspaper practice in writing editorials. Prerequisite: 2.75 overall GPA; and JMC 26007 or 26008 either with a grade of C- (1.7) or better; and a journalism and mass communication (JMC) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass

Communications

JMC 46007 REPORTING IN DEPTH

Techniques involved in researching, interviewing and writing in depth news articles and analyses. Prerequisite: 2.75 overall GPA; and JMC 26007 with a grade of C- or better or JMC 26008 with a grade of C- or better; and a journalism and mass communication (JMC) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass

Communications

JMC 46009 REPORTING PUBLIC AFFAIRS

Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques. Prerequisite: 2.75 overall GPA; and JMC 26007 or 26008; and JMC 36005 or 46003 all with a grade of C- or better; and journalism and mass communication (JMC) major.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass

Communications

JMC 46016 MAGAZINE PUBLISHING

Overview of magazine publishing: editorial, advertising, circulation and production. Analysis of magazines. Prerequisite: 2.75 overall GPA; and a grade of B- (2.7) or better in JMC 20004; and a journalism and mass communication (JMC) major and junior standing; and a score of at least 70% on the Grammar Usage and Punctuation (GUP) test.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass

Communications

JMC 46018 FEATURE WRITING

Researching, writing and placement of feature stories in publications. Prerequisite: 2.75 overall GPA; and JMC 26007 with a grade of C- (1.7) or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Journalism and Mass

Communications

JMC 46020 MAGAZINE DESIGN

Marriage of words and visuals for designing magazine layouts and covers in desktop publishing. Prerequisite: 2.75 overall GPA; and JMC 22000 and 26001 and 46016 and VCD 37000 all with a grade of C- (1.7) or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture



Department: Journalism and Mass Communications

JMC 46021 MAGAZINE WRITING AND EDITING

Research, interviewing writing and marketing of major magazine articles. Also editing techniques for magazines. Prerequisite: 2.75 overall GPA; and JMC 36005 and 40005 both with a grade of C- (1.7) or better.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 46052 ADVANCED BROADCAST NEWS PRACTICES

Study of investigative news stories, newsroom operations, editing and producing broadcast news programs. Advanced projects in broadcast news. Prerequisite: 2.75 overall GPA and JMC 26008 with a grade of C- (1.7) or better.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 46054 BROADCAST DOCUMENTARY

Development of documentary form for radio and television. Analysis and production of documentaries. Utilization of audio and video recording and editing. Prerequisite: 2.75 overall GPA; and two of the following: JMC 33033, JMC 33034, JMC 33042, JMC 33043 -- all with a grade of C- (1.7) or better.
3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass Communications

JMC 47003 TEACHING HIGH SCHOOL JOURNALISM

Methods and materials for teaching journalism in high schools. Prerequisite: junior or senior standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 47004 DESKTOP PUBLISHING FOR HIGH SCHOOL JOURNALISM TEACHERS

Basics of InDesign desktop publishing program as it relates to high school newspapers and magazines. Prerequisite: none.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 47005 ADVISING JOURNALISM PUBLICATIONS

Group study of problems posed by advisers enrolled in the course. Prerequisite: JMC 47003 with a grade of C- (1.7) or better.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 48001 MEDIA RELATIONS AND PUBLICITY

Planning and preparation of materials for use by the news media, both on paper and online. The course explores the media relations function along with the uses and limitations of mass media in public relations practice. Prerequisite: 2.75 overall GPA; JMC 26001; and JMC 26007 or 26008; and JMC 38002 all with a grade of C- (1.7) or better; and journalism and mass communication (JMC) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 48002 PUBLIC RELATIONS TACTICS

Planning and preparation of face-to-face public relations tactics, including spokesperson training for on and off camera appearances special event planning speeches and presentations with visual support and other applications of "writing for the ear." Prerequisite: 2.75 overall GPA; and JMC 26001 and 38002 both with a grade of C- (1.7) or better.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 48003 PUBLIC RELATIONS ONLINE TACTICS

Explore fundamentals of web site planning and design and provides hands-on skills development using the full range of cyber media techniques. Includes emphasis on writing for online audiences. Prerequisite: 2.75 overall GPA; and JMC 26001 and 28001; and JMC 26007 or 26008; and 38002 all with a grade of C- (1.7) or better.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Journalism and Mass Communications

JMC 48006 PUBLIC RELATIONS PUBLICATIONS

Planning, writing and design of organizational publications including

newsletters brochures flyers promotional mailers and web sites. Course also explores the print production process. Prerequisite: 2.75 overall GPA; and JMC 26001 and VCD 37000 both with a grade of C- (1.7) or better; and a journalism and mass communication (JMC) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 48020 MASS MEDIA ORGANIZATIONS AND PUBLIC INFORMATION

The roles of public information and mass media in public opinion formation. Techniques of assessing interpreting public opinion polls and creating public information strategies using mass media. Prerequisite: 2.75 overall GPA and junior or senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 48091 SEMINAR: PUBLIC RELATIONS CAMPAIGNS

This capstone course in the public relations major requires student teams to combine research, planning and execution into a single public relations campaign developed for a real world organization. Prerequisite: 2.75 overall GPA; and JMC 26007 or 26008; and JMC 38002; and three of these four--JMC 48001 and 48002 and 48003 and 48006--all with a grade of C- (1.7) or better.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Journalism and Mass Communications

JMC 49021 CORPORATE VIDEO

The use of video in corporate and organizational environments. Emphasis is placed on the structure and function of the medium within each environment. Prerequisite: 2.75 overall GPA; and two of the following: JMC 33033 and 33034 and 33042 and 33043 both with a grade of C- or better; and a journalism and mass communication (JMC) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50001 FUNDAMENTALS OF MEDIA MESSAGES

Working with messages for print, broadcast, electronic and new media outlets. Course may not be taken for credit nor applied toward any requirements by a JMC major. Prerequisite: Special approval and graduate standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50002 REPORTING FOR MASS MEDIA

Theory and practice in newswriting and reporting; news values and news judgment; lead and story development; techniques of gathering information and dealing with sources of news; writing for deadline. Hours do not count toward degree. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50003 EDITING FOR MASS MEDIA

Theory and practice in copy editing, headline writing and editing photographs and information graphics for print and on-line publications. Hours do not count toward degree. Prerequisite: JMC 50002 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50004 COMPUTER-ASSISTED REPORTING

Computer analysis of large data sets focusing on government, court, police records, for preparation of news stories, basics of on-line searching; software and databases. Prerequisite: JMC 50002 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass Communications

JMC 50006 LAW OF MASS COMMUNICATION

Libel and slander; privacy, copyright, obscenity; regulation of advertising and broadcasting; antitrust law and mass media; legal problems reporting courts, legislatures; taxation, licensing. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50007 REVIEWING THE ARTS

Reviewing and criticism of performing, visual and literary arts. Emphasis on books, film, TV and theater. Prerequisite: Special approval and graduate standing. 2.000 Credit hours

2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50012 ONLINE JOURNALISM

Study and evaluation of online news and news sites; reporting and writing for online news media; design, production and maintenance of an online news site; ethical, legal and economic issues related to online news. Prerequisite: JMC 50002 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50013 TELEVISION SPORTS PRODUCTION

A comprehensive study of the production of live action television sports coverage. Prerequisite: journalism and mass communication (JMC) major and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50015 MEDIA MANAGEMENT

A study of administrative problems, methods, procedures in the management of media corporations. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50016 LAW FOR ADVERTISING AND PUBLIC RELATIONS

Regulation of advertising and public relations; first amendment; libel and privacy; legal problems of new media; research in persuasive media. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50020 AUDIO AND STILL PHOTO PRODUCTION

Develop skills in telling journalistic stories by producing multimedia news stories through research and planning; reporting using digital cameras and digital audio recorders; editing photos and audio. Prerequisite: journalism and mass communication (JMC) major and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50023 NON-TRADITIONAL JOURNALISM

The study of journalistic writing that goes beyond the inverted pyramid and traditional feature story and has topics traditionally not defined as news. Students will also work as part of a team on multi-part stories. Prerequisite: journalism and mass communication (JMC) major and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50027 MANAGING MEDIA DIVERSITY

Aspects of diversity and how it changes our environment with emphasis on the field of mass communication. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50030 COLLABORATIVE ONLINE PRODUCING

The use of multimedia and interactive storytelling rules such as video, audio and graphics. students work in teams to produce packages for online news sites and organizational videos. Prerequisite: journalism and mass communication (JMC) major and graduate standing. 3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50035 TELEVISION GRAPHICS

Basic design, theory and technique in creating and preparing TV and Video graphics. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50036 NON-LINEAR VIDEO EDITING

Introduction to planning and creating short computer video programs integrating multi-layered digital effects and transitions for application by end users in a variety of current video file formats. Prerequisite: journalism and mass communication (JMC) major and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Journalism and Mass Communications

JMC 50037 SCRIPTWRITING FOR VIDEO AND FILM

The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 50193 VARIABLE TITLE WORKSHOP IN JOURNALISM AND MASS COMMUNICATION

Intensive study of professional issues and problems in various areas of mass communication, utilizing the expertise of faculty and professionals in the field. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Journalism and Mass Communications

JMC 51003 ADVERTISING ACCOUNTING MANAGEMENT

An introduction to advertising account management, its functions and the skills needed for this profession. Prerequisite: JMC 60007 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 53035 ADVANCED TELEVISION NEW PRODUCING

Advanced understanding of how to produce news content for broadcast and the web. Prerequisite: graduate standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 53036 RECORD PROMOTION

Class operates as an independent record label to critique, select, promote, publicize and seal original recorded music. Prerequisite: journalism and mass communication (JMC) major and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 53042 VIDEO STUDIO PRODUCTION

Study of producing and direction of various types of television studio programs. 2 hours lecture, 2 hours lab. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 54045 PROMOTIONS FOR ELECTRONIC MEDIA

Fundamental and latest trends in broadcast and cable promotion. Prerequisite: journalism and mass communication (JMC) major and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 54050 AUDIO FOR VIDEO

Understanding of the sonic aspects of visual productions including video studio, video field and online applications. Prerequisite: journalism and mass communication (JMC) major and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 55051 REPORTING BROADCAST NEWS

Gathering and preparing broadcast news, with emphasis on unique style and presentation methods of broadcast media. Use of both audio and video recorders and editing equipment. Prerequisite: JMC 50002 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 56000 NEWSPAPER DESIGN

Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing. Prerequisite: JMC 50003 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass Communications

JMC 56001 INFORMATION GRAPHICS

Introduction to shapes, color, type and combinations of these for computer-designed news graphics: maps, charts,

graphs and diagrams. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass Communications

JMC 56003 PRODUCING TELEVISION NEWS

Knowledge of the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling story selection and rundown placement. Prerequisite: JMC 55051 and journalism and mass communication (JMC) major and graduate standing.
3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass Communications

JMC 56006 EDITORIAL WRITING

Structure and purpose of editorial and column writing; study of editorial page practice in writing editorials. Prerequisite: JMC 50002 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 56007 REPORTING IN DEPTH

Techniques involved in researching, interviewing and writing in-depth news articles and analysis. Prerequisite: JMC 50002 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 56009 REPORTING PUBLIC AFFAIRS

Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques. Prerequisite: JMC 50002 and graduate standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 56016 MAGAZINE PUBLISHING

Overview of magazine publishing-editorial, advertising, circulation and production. Analysis of magazines. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 56018 FEATURE WRITING

Researching, writing and placement of feature stories in publications. Prerequisite: JMC 50002 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 56020 MAGAZINE DESIGN

Marriage of words and visuals for designing magazine layouts and covers in desktop publishing. Prerequisite: JMC 50002 and JMC 50003 and JMC 56016 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 56021 MAGAZINE WRITING AND EDITING

Research, interviewing, writing and marketing of major magazine articles. Also editing techniques for magazines. Prerequisite: JMC 50002 and JMC 50003 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 56052 ADVANCED BROADCAST NEWS PRACTICES

Study of investigative news stories, newsroom operations editing and producing broadcast news programs. Advanced projects in broadcast news. Prerequisite: JMC 55051 or JMC 56054 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 56054 BROADCAST DOCUMENTARY

Development of the documentary form for radio/TV; analysis, production of radio/ TV documentary; utilization of audio/video recording/editing. Prerequisite: JMC 55051.
3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Journalism and Mass Communications

JMC 57003 TEACHING HIGH SCHOOL JOURNALISM

Methods and materials for teaching journalism in high Department. Prerequisite: Graduate standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 57004 DESKTOP PUBLISHING FOR HIGH SCHOOL JOURNALISM TEACHERS

Basics of InDesign desktop publishing program as it relates to high school newspapers and magazines. Prerequisite: graduate standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 58001 MEDIA RELATIONS AND PUBLICITY

Planning and preparation of materials for use by news media, Bothon paper and Online. Analysis of media relations function and media relations strategies. Uses and limitations of mass media in public relations practice. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Journalism and Mass Communications

JMC 58002 PUBLIC RELATIONS TACTICS

Planning and preparation of face-to-face public relations tactics, including spokesperson training for on- and off-camera appearances, special event planning, speeches and presentations with visual support and other applications of "writing for the ear." Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 58003 PUBLIC RELATIONS: ONLINE TACTICS

Explore fundamentals of web site planning and design and provide hands-on skills development using the full range of cyber media techniques. Includes emphasis on writing for online audiences. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Journalism and Mass Communications

JMC 58006 PUBLIC RELATIONS PUBLICATIONS

Planning, writing and design of organizational publications including newsletters, brochures, fliers and promotional materials. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Journalism and Mass Communications

JMC 59021 CORPORATE VIDEO

The use of video in the legal, medical and corporate environments. Emphasis is placed on the structure and function of the medium within each environment. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 60000 INTRODUCTION TO GRADUATE STUDIES IN JOURNALISM AND MASS COMMUNICATION

An introductory survey of the various areas of professional and scholarly concentration in the fields of journalism and mass communication. Consideration of the relationship between professional practice and scholarly activity in those fields. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 60001 THEORY OF MASS COMMUNICATION

Introduction to theory of mass communication, with emphasis on the process and effects of mass communication. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 60002 LEGAL PROBLEMS IN MASS COMMUNICATIONS

Case studies related to the first amendment, libel, invasion of privacy, regulation of broadcasting and new media copyright, and access to information. Course focus will be the theories underlying these issues as well as practical application of the legal concepts. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Journalism and Mass Communications

JMC 60003 ETHICS OF MASS COMMUNICATIONS

Study of ethical problems of mass media in society; analysis of media policies; performance evaluation. Prerequisite: Journalism and mass communication (JMC) major and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 60004 CYBERMEDIA LAW

Investigates how the law affects those who gather information and publish online, including issues relating to blogging, web site hosting, posting and online journalism, along with a basic ability to apply that knowledge in specific situations. Focus is on both existing law and developing public policy. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 60007 RESEARCH METHODS IN MASS COMMUNICATION

Introduction to methods of social science research which are applicable to study of mass communication. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 60009 SOCIAL ROLE OF THE MASS MEDIA

Application of professional, theoretical, historical, economic and political perspectives to examine the role of mass media in society both in terms of structure and function. Prerequisite: Journalism and mass communication (JMC) major and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 60010 QUALITATIVE RESEARCH IN JOURNALISM AND MASS COMMUNICATION: DATA COLLECTION

Designed to develop skills in qualitative data collection in journalism and mass communication with primary focus on human subjects and textual data.

Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 60015 ADVANCED MEDIA MANAGEMENT

Theory and practice of management operations and problem-solving techniques specifically related to media companies.

Emphasis will be using case studies from the media. Prerequisite: JMC 50015 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 60021 ADVANCED MAGAZINE WRITING

Course builds on content in JMC 56016 and 50006. Purpose is to refine and hone writing skills for nonfiction magazine stories in print and online. Prerequisite: JMC 56016 and JMC 50005 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 60096 INDIVIDUAL INVESTIGATION IN MASS COMMUNICATION

Individual investigation of selected area or problem approved by graduate faculty.

Repeatable for maximum of 6 hours.

Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Journalism and Mass Communications

JMC 60098 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Repeated registration permitted. Maximum of 3 hours may be applied to degree if school approves. Prerequisite: Special approval and graduate standing.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Journalism and Mass Communications

JMC 60195 SPECIAL TOPICS SEMINAR

Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Journalism and Mass Communications

JMC 60196 READINGS IN MASS COMMUNICATIONS

Student pursues course of readings approved by instructor to cover subject specialty student cannot obtain from formal course offerings. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Journalism and Mass Communications

JMC 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired. Prerequisite: Special approval and graduate standing.

2.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Journalism and Mass Communications

JMC 60295 SPECIAL TOPICS IN COMPUTER LAB

Selected topics of special interest not covered in depth in existing courses; offered as resources permit. Prerequisite: Special approval.

1.000 TO 3.000 Credit hours

3.000 Lab hours

Level: Graduate

Schedule Types: Laboratory

Department: Journalism and Mass Communications

JMC 60296 ADVANCED READINGS IN JOURNALISM AND MASS COMMUNICATION

Consolidation and synthesis of learning experiences in the graduate program. Application of graduate study to future professional careers. Updates on latest developments in the fields of JMC and their impact on the future of academic study and professional practice in the discipline. Prerequisite: Graduate standing and special approval.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Journalism and Mass Communications

JMC 60299 THESIS II

Thesis student must continue registration each semester until all degree requirements are met. Prerequisite: JMC 60199 and graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Journalism and Mass Communications

**JMC 60396 MASTER'S PROFESSIONAL PROJECT**

Completion and defense of a substantial professional project in one of the fields of journalism and mass communication. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Journalism and Mass Communications

JMC 64072 ADMINISTRATIVE PROBLEMS IN RADIO AND TELEVISION

Advanced study of management topics in radio, television cable and corporate television settings. Case studies and individual projects. Prerequisite: JMC 50015 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 65660 POLITICAL COMMUNICATION

An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 66005 PROFESSIONAL NEWS EDITING

Professionally oriented work at the advanced level in selecting, editing and displaying stories and photographs in print journalism; role and responsibility of editors. Prerequisite: JMC 50003 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 66010 SPECIALIZED REPORTING

Newsgathering techniques in specialty areas such as politics, labor, medicine, business and technology techniques of team reporting. Prerequisite: JMC 56009 and JMC 55051 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 66015 ROLE OF THE EDITOR

The role of the supervising editor in a news operation. How to plan coverage, generate

story ideas, work with reporters and other editors, and deal with community issues. Prerequisite: JMC 50002 and JMC 50003 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 66020 PRECISION JOURNALISM

Professional application of social science research methods and statistics to the news industry. Writing stories on public opinion polls, public records and field experiments. Prerequisite: JMC 50002 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 66092 INTERNSHIP IN JOURNALISM AND MASS COMMUNICATION

Experience in a department or company involving supervised professional responsibilities in journalism and mass communication. Minimum 150 hours of work for each credit hour. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Journalism and Mass Communications

JMC 67094 COLLEGE TEACHING OF JOURNALISM

Staff training and experience in college teaching. Only 3 hours may be applied toward master's degree. Prerequisite: Special approval and graduate standing.
1.000 OR 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 68000 PUBLIC RELATIONS THEORY AND PROCESS

Introduces students to the profession of public relations by exploring both the theories and the processes employed by PR practitioners. Course also explores the history and social role of public relations as well as ethics and social responsibility. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 68001 PUBLIC RELATIONS MANAGEMENT

Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with publics. Prerequisite: JMC 68000 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 80001 THEORY OF MASS COMMUNICATION

Introduction to theory of mass communication with emphasis on the process and effects of mass communication. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 80004 CYBERMEDIA LAW

Investigates how the law affects those who gather information and publish online, including issues relating to blogging, web site hosting, posting and online journalism, along with a basic ability to apply that knowledge in specific situations. Focus is on both existing law and developing public policy. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

JMC 80010 QUALITATIVE RESEARCH IN JOURNALISM AND MASS COMMUNICATION: DATA COLLECTION

Designed to develop skills in qualitative data collection in journalism and mass communication with primary focus on human subjects and textual data. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Journalism and Mass Communications

Justice Studies (JUS)**JUS 12000 INTRODUCTION TO JUSTICE STUDIES**

Surveys the U.S. criminal justice system and its component institutions and processes, including overviews of policing, corrections, courts, and their inter-relationships in the criminal justice system. An overview is also provided of the nature and measurement of crime, patterns of offending and victimization, and criminal



justice responses to offending and victimization. Historical and emerging issues are introduced including a variety of insights related to effective, professional and ethical practices in criminal justice. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: TAG Social/Behavior Sciences

JUS 22100 BASIC INTERVIEWING

Foundation of basic interviewing principles including communication models, question format, distortions, topic control, inhibitors, facilitators, listening, types of interviews and practical exercises. Prerequisite: JUS 12000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 22300 POLICE ROLE

Systematic analysis of the police role. An examination of the related research with an emphasis on divergent perspective and development of conceptual models.

Prerequisite: JUS 12000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: TAG Social/Behavior Sciences

JUS 22301 THE INVESTIGATIVE PROCESS

An examination of established investigative processes, techniques employed in conducting a systematic investigation and legal implications. Prerequisite: JUS 12000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 25092 FIELD PLACEMENT

Observational experience under the direction of supervising faculty in a justice agency. Prerequisite: Six hours of justice studies (JUS) including JUS 12000 and special approval.

1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Sociology

JUS 26701 CORRECTIONS

Course topics include history of corrections, punishment, community corrections, correctional institutions, correctional administration, issues in corrections, and future trends of corrections. Prerequisite: JUS 12000.

3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: TAG Social/Behavior Sciences

JUS 26704 ISSUES IN LAW AND SOCIETY

General treatment of the legal system with special emphasis on its origin, structure and functional consequences on issues and problems in modern society. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Kent Core-Social Sciences, Transfer Module-Social Sciences

JUS 26705 SURVEY OF CONTRACTUAL JUSTICE SERVICES

Overview of contractual agencies within the justice system including volunteerism, private policing, quasi-court services, and contractual and cognate correctional agencies. Prerequisite: JUS 12000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 27095 SPECIAL TOPICS JUSTICE STUDIES

Intensive analysis of issues significant and current in the field which are not covered in regular courses. Repeatable for a total of 6 hours. Prerequisite: none.

2.000 OR 3.000 Credit hours
2.000 OR 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 27311 VICTIMOLOGY

Patterns of victim-offender relationship and process of victimization. Role of victims in criminal process. Problems of adjustment to victimization and issues in victim compensation. Prerequisite: JUS 12000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 32200 POLICE AND COMMUNITY

An examination of the rights of individuals, citizen involvement, the police as members of the community, and the development implementation and evaluation of related programs. Prerequisite: JUS 12000 and 22300; and sophomore standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 32400 RESEARCH METHODS IN JUSTICE STUDIES

Scientific approaches to the study of criminal justice. Survey of methods and designs used in criminal justice research; uses of research in criminal justice.

Exercises included. Prerequisite: JUS 12000 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Writing Intensive Course

JUS 32500 CRISIS INTERVENTION

Crisis intervention situations in criminal justice are considered. The service role of criminal justice personnel, community resources and skill development are also considered. Prerequisite: JUS 12000; and JUS 22300 or 27311; and sophomore standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 33200 CRIMINAL LAW

Developmental backgrounds and principles of criminal law; structure, functions of criminal law; rules of criminal liability and procedural requisites in criminal proof. Case analysis included. Prerequisite: JUS 12000 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 33300 DEVELOPMENT OF JUSTICE IN AMERICA

Course focuses on the evolution of the criminal justice process from its establishment in the United States to the present. Prerequisite: JUS 12000 and sophomore standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 33400 CRIME AND JUSTICE IN POPULAR CULTURE

Crime and criminal justice as they are socially constructed and portrayed in popular culture including television, news and entertainment, popular film and other media of popular culture. Critical analysis of relations between popular culture, media institutions, crime and justice. Role of popular culture media in shaping public opinions about crime and justice, and in turn the relevance of public opinion for understanding criminal justice politics and policy. Prerequisite: JUS 12000 and sophomore standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture



Department: Sociology

JUS 34200 CRIMINAL PROCEDURES AND EVIDENCE

This course focuses on the use of evidence and the legal procedures followed in the processing of criminal cases. Case analysis and writing assignments required.

Prerequisite: JUS 12000 or PLST 18000; and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

JUS 34311 YOUTH AND THE JUSTICE SYSTEM

Analysis of situations involving the legal rights of children and youths which demand intervention by justice institutions or service agencies. Prerequisite: JUS 12000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

JUS 36702 CRIMINOLOGY

Examines crime from the legal and social viewpoints; including extent and patterns of criminal behavior. Special emphasis on theoretical explanations of criminal behavior and crime rates. Prerequisite: JUS 12000 and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: TAG Social/Behavior Sciences

JUS 36703 JUVENILE DELINQUENCY

Social and personal factors in juvenile delinquency; operation of juvenile justice system; prevention and control of delinquency. Prerequisite: JUS 12000 and 36702; and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Writing Intensive Course

JUS 37091 SEMINAR IN CRITICAL ISSUES IN JUSTICE

Intense analysis of issues significant and current in the justice field which are not covered in regular courses. Prerequisite: JUS 12000 and sophomore standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Sociology

JUS 37095 SPECIAL TOPICS IN JUSTICE STUDIES

Intensive analysis of issues significant and current in the field which are not covered in regular courses. Repeatable for a total of 6 hours. Prerequisite: junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

JUS 37311 MINORITIES IN CRIME AND JUSTICE

Focus on the role of social and ethnic minorities as victims, offenders and participants in the justice process.

Prerequisite: junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Diversity Course-Domestic

JUS 37411 WOMEN IN CRIME AND JUSTICE

Women as a significant group in crime and their role in the development and operation of the criminal justice system. Prerequisite: junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Diversity Course-Domestic

JUS 37511 IMMIGRATION: LAW, CRIME AND JUSTICE

Covers issues of immigration related to law, crime, and justice. Students will be introduced to issues of international diversity through the consideration of issues of law, criminal justice, and social justice related to immigration. Topics to be covered include legal and illegal immigration, immigration law enforcement, immigrants as criminal offenders and as crime victims, police-community relations, immigrants in correctional or detention facilities, and immigration as a national security concern and controversy. Prerequisite: junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Diversity Course-Domestic

JUS 38007 HUMAN SERVICE AGENCIES AND THE LAW

Designed to acquaint the student with the substance and procedure of law pertaining to human service agencies. Included: definitions, terminology, topical areas and legal ethics. Prerequisite: JUS 12000 and sophomore standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

JUS 44400 JUSTICE ADMINISTRATION

Identification of administrative and management functions, leadership management styles and supervision of personnel in justice organizations.

Prerequisite: JUS 12000 and 22300 and 26704; and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

JUS 44411 VARIETIES OF POLICE WORK

Analysis of police practices and functions at the municipal, state and federal level including private security. Examination of emerging trends in policing will be considered. Prerequisite: JUS 12000 and 22300 and 26704; and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

JUS 45093 VARIABLE TITLE WORKSHOP IN JUSTICE STUDIES

Prerequisite: Special approval.

1.000 TO 6.000 Credit hours

1.000 TO 6.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Sociology

JUS 45096 INDIVIDUAL INVESTIGATION

Involves an individual research project of considerable depths in a subject area not covered by regular course offerings. Prior consent of supervising faculty member is required. Repeated registration permitted when topic varies. Prerequisites: JUS 12000 and 26704 and 32400; and junior standing; and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Sociology

JUS 46701 CRIME, JUSTICE AND SUBSTANCE ABUSE

Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered. Prerequisite: JUS 12000 and 26704; and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

JUS 46705 COMMUNITY CORRECTIONS

This course is devoted to an examination of formal and informal approaches to correctional supervision and treatment through probation, parole and community residential treatment. Prerequisite: 12 credit hours of justice studies (JUS) coursework, including JUS 12000 and 26701.



3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 46707 CORRECTIONAL INSTITUTIONS

A thorough examination of the correctional institution, including the structure and organization, personnel, inmate social world and examination of the issues in contemporary correctional institutions. Prerequisite: 12 credit hours of justice studies (JUS) coursework, including JUS 12000 and 26701.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 46708 TREATMENT METHODS

Various methods of treatment are applied to corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible. Prerequisite: 12 credit hours of justice studies (JUS) coursework, including JUS 12000 and 26701.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 46792 INTERNSHIP

Work experience under direction of supervising faculty member in private, federal, state or local justice agency or law agency. Prerequisite: 9 credit hours of justice studies (JUS) coursework, including JUS 12000; and a 2.00 cumulative GPA and in justice studies (JUS); and junior standing and special approval.
3.000 TO 12.000 Credit hours
12.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Sociology

JUS 46798 RESEARCH IN JUSTICE STUDIES

Individual research under direct supervision of a faculty member to provide direct hands-on research experience working on faculty research projects. Prior consent of supervising faculty member is required. Only 6 hours of nontraditional coursework can count towards the major. May be repeated up to 12 credit hours. Prerequisite: JUS 12000 and 26704 and 32400; and junior standing; and 3.2 GPA overall; and special approval.
3.000 TO 12.000 Credit hours
12.000 Other hours
Level: Undergraduate
Schedule Types: Research
Department: Sociology

JUS 47095 SPECIAL TOPICS IN JUSTICE STUDIES

Intensive analysis of issues significant and current in the field which are not covered in regular courses. Prerequisite: JUS 12000 and 26704; and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 47211 COURT FUNCTIONS

Analysis of the structure, functions and critical role of incumbents in the criminal court. Prerequisite: JUS 12000 and 26704; and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 47311 COMPARATIVE JUSTICE SYSTEMS

A systematic comparison of the developmental backgrounds, structure and functioning of the major systems of justice in the modern world. Prerequisite: JUS 12000 and 26704; and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

JUS 48200 DATA ANALYSIS IN JUSTICE STUDIES

This course exposes students to methods used in the analysis of quantitative and qualitative data in the field. Emphasis is placed on the development of analytical skills and appropriate use of statistical techniques. Computer applications and other hands-on methods emphasized. Prerequisite: JUS 12000 and 26704 and 32400; and junior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Sociology

JUS 55093 VARIABLE TITLE WORKSHOP IN JUSTICE STUDIES

Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop topic. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Sociology

JUS 56701 CRIME, JUSTICE AND SUBSTANCE ABUSE

Examination of the relationship between drug and alcohol abuse and criminal behavior. Efforts to regulate, control, prevent and treat chemical abuse offenders are considered. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 56705 COMMUNITY CORRECTIONS

This course is devoted to an examination of formal and informal approaches to correctional supervision and treatment through probation, parole and community residential treatment. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 56708 TREATMENT METHODS

Various methods of treatment are applied to corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 57095 SPECIAL TOPICS IN JUSTICE STUDIES

Intensive analysis of issues significant and current in the field which are not covered in regular courses. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Sociology

JUS 66299 THESIS II

Thesis students must continue to register for each semester until all degree requirements are met. Prerequisites: JUS 66199 and graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Sociology

JUS 66761 LAW, JUSTICE AND SOCIETY

Course reviews the origins, structure and functioning of law in relation to social context and process. Topics to be covered include theories of law and society, law as a form of social control, and the use of law and legal institutions to address societal problems. Prerequisite: Graduate standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66762 PROSEMINAR IN ISSUES IN CONTEMPORARY JUSTICE

An analysis of current issues in the legislative, policing, judicial and correctional components of the justice system. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66763 THEORIES OF CRIME AND DELINQUENCY

Examination of major theoretical concepts in criminology that have been utilized to explain criminal behavior and juvenile delinquency. Includes discussion of social policy implications. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66764 JUVENILE JUSTICE

An analysis of the issues and current research related to juvenile delinquency and the juvenile justice process. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66765 CRIMINAL VIOLENCE

Course explores the many dimensions of criminal violence. Topics to be covered include patterns and trends, types of violence, the prediction and etiology of violent behavior, and response/ solutions to violence. Emphasis will be placed on the U.S. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66766 INSTITUTIONAL CORRECTIONS

Analysis of the correctional institution as a social system: formal structure and informal dynamics. Basic operational problems and special programs within the institutional setting are considered. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66767 JUSTICE ADMINISTRATION

Focuses on theory and practice in justice administration. Current organizational

theories are considered in relation to the administration and management of criminal justice agencies. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66768 RESEARCH METHODS IN JUSTICE STUDIES

Methodological research designs and techniques utilized in criminal justice. Focuses on specific skills needed to complete basic and evaluative research in criminal justice. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66769 JUSTICE RESEARCH APPLICATIONS

Application of research methods within various content areas of justice studies; individualized research assignments included. Prerequisites: JUS 66768 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66770 JUSTICE INSTITUTIONS

This course introduces students to various institutions related to the U.S. criminal justice system. Students examine techniques for conducting institutional analysis and apply these techniques to law enforcement, judicial and correctional institutions. Prerequisite: JUS 66762 or POL 670701; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66771 LEGAL ASPECTS OF JUSTICE ADMINISTRATION

An examination of the legal rights of the offenders and victims, and constraints of law and justice practices and administration. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66772 VICTIMOLOGY

Patterns of victim-offender relationship. Role of victims in the justice studies process. Problems of adjustment to victimization and compensating the victim. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Sociology

JUS 66773 CONTEMPORARY POLICING

The functions and dynamics of police work in contemporary society, current and emerging functions are emphasized. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66774 COMPARATIVE JUSTICE INSTITUTIONS AND POLICY

Cross-cultural analysis of crime and the justice institutions/justice policies of various countries. The developmental backgrounds structure and functioning of the systems are compared. Important issues in international justice are considered. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66775 RESEARCH METHODS IN JUSTICE STUDIES II

Advanced topics in multivariate statistical analysis with applications in justice studies. Prerequisite: JUS 66768 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
JUS 66776 QUALITATIVE METHODS IN JUSTICE STUDIES
Examination of qualitative methods used in justice research, including ethnography, content analysis, historical analysis and focus groups. Use of computers in qualitative analysis also included. Prerequisite: JUS 66768 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66792 INTERNSHIP IN JUSTICE STUDIES

Observation and work experience under direction of a faculty member in a justice institution. Prerequisite: Special approval and graduate standing.
4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Sociology

JUS 66795 SPECIAL TOPICS

Offered irregularly, this course provides opportunity to study special issues developments and programs in justice studies. Topics vary. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours



1.000 TO 3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

JUS 66796 INDIVIDUAL INVESTIGATION

Intensive study of a subject which the student cannot normally pursue in a regularly scheduled course. Individual investigation topic must be approved by instructor and graduate coordinator.
Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Sociology

JUS 66798 RESEARCH

Pursuit of research interests. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Sociology

Kent Blossom Art (KBA)

KBA 44080 STUDIO EXPERIENCE IN FINE ARTS

(Repeatable for credit) Studio exploration of selected concepts in painting, sculpture printmaking or photography. Content varies with each section offered. Special course fee \$22.00 credit/hour. Prerequisite: special approval.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art
Course Attributes: Variable Title

KBA 45080 STUDIO EXPERIENCE IN CRAFTS

(Repeatable for credit) Studio exploration of selected concepts in ceramics, enameling glass jewelry metals or fiber arts. Content varies with each section offered. Special course fee \$25.00: credit hour. Prerequisite: special approval.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Art
Course Attributes: Variable Title

KBA 54080 STUDIO EXPERIENCE IN FINE ARTS

(Repeatable for credit) Studio exploration of selected concepts in painting, sculpture, printmaking or photography. Content varies with each section offered. Prerequisite: special approval and graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Art

Course Attributes: Variable Title

KBA 55080 STUDIO EXPERIENCE IN CRAFTS

(Repeatable for credit) Studio exploration of selected concepts in ceramics, enameling, glass, jewelry, metals or fiber arts. Content varies with each section offered.
Prerequisite: special approval and graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Art
Course Attributes: Variable Title

Kent Blossom Music (KBM)

KBM 40026 ACCOMPANYING PROJECTS

(repeatable for a total of 8 hours) rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation master classes and instrumental private lessons. Individual responsibilities change weekly.
Prerequisite: Audition.
2.000 TO 4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Music

KBM 40031 CHAMBER MUSIC
(repeatable for a total of 8 hours) rehearsal, coaching and performance of representative chamber repertoire from the baroque era through the twentieth century. Woodwinds horn strings and piano. Intensive daily rehearsal and coaching.
Prerequisite: Audition.
1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Music

KBM 40032 ORCHESTRAL REPERTOIRE AND TECHNIQUE
(repeatable for a total of 2 hours) study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds horn and strings. Prerequisite: Audition.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Music

KBM 40032 ORCHESTRAL REPERTOIRE AND TECHNIQUE

(repeatable for a total of 2 hours) study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds horn and strings. Prerequisite: Audition.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Music

KBM 40042 APPLIED MUSIC-INSTRUMENTAL

(repeatable for a total of 4 hours) private studio instruction in orchestral instruments. Prerequisite: Audition.
1.000 OR 2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson
Department: Music

KBM 40093 VARIABLE TITLE WORKSHOP IN MUSIC

Offered for specific professional needs. Emphasis on performance and pedagogical skills. Prerequisite: Permission.
1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Music

KBM 50026 ACCOMPANYING PROJECTS

Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly. Repeatable for a total of 8 hours. Prerequisite: Graduate standing and audition.
2.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

KBM 50031 CHAMBER MUSIC

Rehearsal, coaching and performance of representative chamber repertoire from the Baroque Era through the twentieth century. Woodwinds, horn, strings and piano. Intensive daily rehearsal and coaching. May be repeated for credit. Prerequisite: Graduate standing and audition.
1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

KBM 50032 ORCHESTRAL REPERTOIRE AND TECHNIQUE

Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings. Repeatable for a total of 2 hours. Prerequisite: Graduate standing and audition.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

KBM 50093 VARIABLE TITLE WORKSHOP IN MUSIC

Offered for specific professional needs. Emphasis on performance and pedagogical skills. Prerequisite: Graduate standing and special approval.
1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Music

KBM 60042 APPLIED MUSIC-INSTRUMENTAL

Private studio instruction in orchestral instruments. Repeatable for a total of 4



hours. Prerequisite: Graduate standing and audition.

1.000 OR 2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Private Lesson

Department: Music

KBM 70026 ACCOMPANYING PROJECTS

Rotating piano assignment among responsibilities in chamber music rehearsals, chamber music preparation, master classes and instrumental private lessons. Individual responsibilities change weekly. Repeatable for a total of 8 hours. Prerequisite: Doctoral standing and special approval.

2.000 TO 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

KBM 70031 CHAMBER MUSIC

Rehearsal, coaching and performance of representative chamber repertoire from the Baroque era through the twentieth century. Woodwinds, brass, strings and piano. Intensive daily rehearsal and coaching. May be repeated for credit. Prerequisite:

Doctoral standing and special approval.

1.000 TO 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

KBM 70032 ORCHESTRAL REPERTOIRE AND TECHNIQUE

Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. Woodwinds, horn and strings. Repeatable for a total of 2 hours. Prerequisite: Doctoral standing and special approval.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

KBM 70042 APPLIED MUSIC-INSTRUMENTAL

Private studio instruction in orchestral instruments. Repeatable for a total of 4 hours. Prerequisite: Doctoral standing and special approval.

1.000 OR 2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Private Lesson

Department: Music

KBM 70093 VARIABLE TITLE WORKSHOP IN MUSIC

Offered for specific professional needs. Emphasis on performance and pedagogical skills. Prerequisite: Doctoral standing and special approval.

1.000 TO 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Music

Kent Blossom Theatre (KBT)

KBT 22092 PRACTICUM I: DESIGN/TECHNOLOGY

Practical experience in theatre production under faculty supervision. Available for lower division students only. Repeatable for a total of 12 hours. Prerequisite: Freshman and sophomore standing only.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Theatre and Dance

KBT 22192 PRACTICUM I: PERFORMANCE

(repeatable for a total of 12 hours) practical experience in theatre performance under faculty supervision. Available for lower division students only. Repeatable for a total of 12 hours. Prerequisite: Freshman and sophomore standing only.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Theatre and Dance

KBT 41096 INDIVIDUAL STUDY: THEATRE

(repeatable for a total of 12 hours) selected research topics in theatre. Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Theatre and Dance

KBT 41992 THEATRE PRODUCTION INTERNSHIP

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company. Repeatable for a total of 12 hours. Prerequisite: Junior standing and special approval.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Theatre and Dance

KBT 42092 PRACTICUM II: DESIGN TECHNOLOGY

Advanced practical experience in theatre production under faculty supervision. Available for upper division students only. Repeatable for a total of 12 hours.

Prerequisite: Junior and senior standing only.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Theatre and Dance

KBT 42192 PRACTICUM II: PERFORMANCE

Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only. Repeatable for a total of 12 hours.

Prerequisite: Junior and senior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Theatre and Dance

KBT 60199 M.F.A. THESIS

Students must register for course during the semester of their MFA thesis project. Not repeatable. Prerequisite: Special approval of adviser. Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Theatre and Dance

KBT 60992 PROFESSIONAL THEATRE INTERNSHIP I

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company. Repeatable once. Prerequisite: graduate standing and special approval. Cross-listed with THEA 60992.

1.000 OR 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

KBT 61096 INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA

Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director. Repeatable for maximum of 6 credit hours. Prerequisite: Special approval and graduate standing.

1.000 TO 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Theatre and Dance

KBT 61992 PROFESSIONAL THEATRE INTERNSHIP II

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company. SU grading, IP permissible. Prerequisite: special approval and graduate standing.

1.000 OR 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

KBT 62092 PRACTICUM: DESIGN/TECHNOLOGY

Practical experience for the graduate student in theatre design and technology under faculty supervision. Prerequisite: Graduate standing.



3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Theatre and Dance

**KBT 62192 PRACTICUM:
PERFORMANCE**

Practical experience for the graduate student in theatre performance under faculty supervision. Repeatable up to 12 hours. SU grading, IP permissible. Prerequisite: special approval and graduate standing. Cross-listed with THEA 62192
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Theatre and Dance

**KBT 62992 THEATRE PRODUCTION
INTERNSHIP**

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company. Repeatable for a maximum of 12 hours. Prerequisite: Special approval of adviser. Graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Theatre and Dance

**KBT 72992 THEATRE PRODUCTION
INTERNSHIP**

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company. Repeatable for a maximum of 12 hours. Prerequisite: Special approval of adviser and doctoral standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Theatre and Dance

Latin (LAT)

LAT 16201 ELEMENTARY LATIN I

An introduction to the classical Latin language in the context of ancient Roman culture. Prerequisite: None.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

LAT 16202 ELEMENTARY LATIN II

A continuation of the introduction to the classical Latin language in the context of ancient Roman culture. Prerequisite: LAT 16201.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Modern and Classical Language Studies

**LAT 26201 INTERMEDIATE LATIN I:
READINGS**

Excerpts from Latin literature with emphasis on translation into English. Prerequisite: LAT 16202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

**LAT 26202 INTERMEDIATE LATIN II:
READINGS**

Excerpts from Latin literature with emphasis on both prose (e.g., Caesar, Cicero) and poetry (Vergil, Catullus). Prerequisite: LAT 26201.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

LAT 36170 CICERO

Readings in Cicero's orations and philosophical works, stressing rhetorical techniques. Consideration of Cicero's role in Roman history and his place in Latin literature. Prerequisite: LAT 26202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

LAT 36171 VERGIL

A study of the Latin text of Vergil's Aeneid stressing the poetry of the language. Consideration of entire poem and its impact on Latin literature. Prerequisite: LAT 26202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

**LAT 40393 VARIABLE TITLE
WORKSHOP**

Workshops individually designed to provide instruction and training in Latin studies. S u graded. Prerequisite: Departmental permission.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Modern and Classical Language Studies

LAT 46095 SELECTED TOPICS IN LATIN

Topic announced in the schedule of classes. Prerequisite: LAT 36170 or LAT 37171.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Modern and Classical Language Studies

LAT 46096 INDIVIDUAL INVESTIGATION

Investigation of problems in Latin literature or linguistics. Prerequisite: minimum 3 hours of coursework at the 40000-level and departmental special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Modern and Classical Language Studies

LAT 46211 LATIN PROSE COMPOSITION

Analysis of prose models; writing of connected Latin prose with attention to the Latin idiom. Prerequisite: LAT 36170 or LAT 36171.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

LAT 46351 LATIN COMEDY

Characteristics and history of Latin comedy; readings from Plautus and Terence. Prerequisite: LAT 36170 or LAT 36171.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

LAT 46352 ELEGIAC POETS

Selections from Tibullus, Propertius and Ovid. Prerequisite: LAT 36170 or LAT 36171.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

LAT 46372 LYRIC POETRY

Readings from the poetry of Catullus and Horace, with considerations of the general genre of lyric; a comparison of style and content of the two poets. Prerequisite: LAT 36170 or LAT 36171.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

**LAT 46373 ADVANCED PROSE
AUTHORS**

Consideration of a major prose author such as Pliny the Younger, Livy, Tacitus or Suetonius; may be repeated when a different author is read. Prerequisite: LAT 36170 or LAT 36171.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture



Department: Modern and Classical
Language Studies

LAT 46374 JUVENAL'S SATIRES AND MARTIAL'S EPIGRAMS

General consideration of Roman satire.
Prerequisite: LAT 36170 or LAT 36171.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

LAT 46375 LUCRETIUS

De Rerum Natura. Prerequisite: LAT 36170 or LAT 36171.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

LAT 50393 VARIABLE TITLE WORKSHOP IN LATIN

Workshops individually designed to provide instruction and training in Latin studies.
Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Modern and Classical
Language Studies

LAT 56095 SELECTED TOPICS IN LATIN

Topic to be announced in semester schedule of classes. May be repeated to maximum of 15 hours. Prerequisite: LAT 36180 and LAT 37171 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

LAT 56374 JUVENAL'S SATIRES AND MARTIAL'S EPIGRAMS

General consideration of Roman satire.
Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

LAT 56375 LUCRETIUS

De Rerum Natura. Prerequisite: Graduate standing.
3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

LAT 66199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Modern and Classical
Language Studies

LAT 66211 ADVANCED PROSE COMPOSITION

More thorough training in composition where need is established. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

LAT 66299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: LAT 66199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Modern and Classical
Language Studies

LAT 66351 LATIN COMEDY

Characteristics of Latin comedy; readings from Plautus and Terence. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

LAT 66372 LYRIC POETRY

Readings from the poetry of Catullus and Horace, with considerations of the general genre of lyric; a comparison of style and content of the two poets. Study of Greek and Latin precedents in the genre. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

LAT 66373 ADVANCED PROSE AUTHORS

A consideration of selected major prose writers such as Pliny the Younger, Livy, Tacitus Suetonius. Prerequisite: Graduate standing.
3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

LAT 66391 SEMINAR IN CLASSICAL LITERATURE

Topics to be announced. Prerequisite: Graduate standing.
2.000 OR 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Modern and Classical
Language Studies

LAT 66398 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Modern and Classical
Language Studies

Legal Assisting Technology (LEGT)

LEGT 18000 INTRODUCTION TO PARALEGAL STUDIES

An overview of the legal system and the role of a paralegal professional. Includes legal terminology, types of laws, research, litigation, interviewing and office management. Course offered at the East Liverpool campus only. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 18001 LEGAL RESEARCH AND WRITING

In-depth analysis of the legal research process and development of legal writing skills; opportunities to utilize research and writing skills are integrated into the course. Course offered at the East Liverpool campus only. Prerequisite: LEGT 18000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 18002 CORPORATE LAW

Introduction to corporation law and its application to client variations in practice. Course offered at the East Liverpool campus only. Prerequisite: LEGT 18001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College



LEGT 18003 FAMILY LAW AND PROCEDURE

Designed to acquaint the student with family law substance and practice. Included: definitions, terminology, topical areas and the philosophy underlying family law practice. Prerequisite: LEGT 18000. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 18004 TORT CLAIMS FOR PARALEGALS

Focus on tort claims management for paralegals. Topics include injuries to person and property, negligence, strict and products liability, defenses, processing insurance claims and settlements. Prerequisite: LEGT 18000. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 18005 EMPLOYMENT REGULATIONS

Introduction to the employment environment and various regulations pertaining to the workplace. Wage and hour statutes, wrongful discharge statutes, ERISA, Title VII, COBRS. Course offered at the East Liverpool campus only. Prerequisite: LEGT 18000. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 21092 INTERNSHIP

Supervised field experience. This experience requires a minimum of 14 hours per week for unpaid work experiences or 20 hours per week for employment with pay. Course offered at the East Liverpool campus only. Prerequisite: LEGT 28006 and special approval. Corequisite: LEGT 28008. 2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 27091 SPECIAL TOPICS IN PARALEGAL STUDIES

Intensive analysis of issues significant and current in the field which are not covered in regular courses. Repeatable for a total of 6 hours. Prerequisite: LEGT 18000. 2.000 OR 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 28004 PRINCIPLES AND PRACTICE OF LITIGATION

Introduction to the rules of civil procedure, statutes of limitation and discovery. Includes the role of the legal assistant in

preparing for litigation. Prerequisite: LEGT 18000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 28005 CIVIL LITIGATION

Role of paralegals in preparation for motions, trials and appeals. Specialized practices such as personal injury, medical malpractice, product and environmental liability. Prerequisite: LEGT 28004. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 28006 ADVANCED LEGAL RESEARCH AND WRITING

Introduction to case analysis and preparation of argumentative memorandum. Including writing of factual memorandum, file summaries and advocacy letters. Course offered at the East Liverpool campus only. Prerequisite: LEGT 18001. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 28007 ESTATE AND PROBATE ADMINISTRATION

A study of legal principles applicable to wills, organization and jurisdiction of probate court, estate administration in probate, and tax considerations in estate administration. Course offered at the East Liverpool campus only. Prerequisite: LEGT 28006. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

LEGT 28008 PROFESSIONAL DEVELOPMENT FOR PARALEGALS

Exploration and discussion of the paralegal field. Employment opportunities and responsibilities. Professional organizations and business etiquette. Prerequisite: LEGT 18001 and permission. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

University Libraries (LIB)

LIB 10010 INFO FLUENCY COLLEGE SUCCESS

Teaches information and technology skills critical to college success, enabling students to become information fluent--able to find and evaluate information in a variety of contexts and formats, using a variety of

technologies, to achieve specific objectives in effective and socially responsible ways.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: University Libraries

LIB 30010 INFO FLUENCY WORKPLACE/BEYOND

Teaches information access, technology and media literacy skills, which enables students to become, not only information literate, but also information fluent--able to move seamlessly among multiple information sources and technologies resources to fill their informational needs, whether in the classroom or the workplace. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: University Libraries

Library and Information Sciences (LIS)

LIS 10010 INFORMATION FLUENCY FOR COLLEGE SUCCESS

Teaches information and technology skills critical to college success, enabling students to become information fluent--able to find and evaluate information in a variety of contexts and formats, using a variety of technologies, to achieve specific objectives in effective and socially responsible ways. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 30010 INFORMATION FLUENCY IN THE WORKPLACE AND BEYOND

Teaches information access, technology, and media literacy skills which enables student to become, not only information literate, but also information fluent able to move seamlessly among multiple information sources and technologies resources to fill their informational needs, whether in the classroom or the workplace. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 40693 VARIABLE TITLE WORKSHOP IN LIBRARY AND INFORMATION SCIENCE

Intensive examination of special topics of interest. Course may be repeated. Prerequisite: Junior or senior standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours



Level: Undergraduate
Schedule Types: Workshop
Department: Library and Information Sciences

LIS 41095 SELECTED TOPICS IN LIBRARY SCIENCE

Topics will be announced in schedule of classes. Offered irregularly as resources and opportunities permit. Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 50693 VARIABLE TITLE WORKSHOP-LIBRARY AND INFORMATION SCIENCE

Maximum workshop credit accepted for MLIS degree is 4 semester hours. Intensive examination of special topics of interest to practicing librarians. May be repeated. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Library and Information Sciences

LIS 60001 ACCESS TO INFORMATION

Examination of information access issues. Topics include discussion of information needs, use of information sources and information access services. Prerequisite: Graduate standing. This course is not open to students in non-degree programs.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60002 ORGANIZATION OF INFORMATION

Introduction to the theory and practice of organizing information in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information. Prerequisite: Graduate standing. This course is not open to students in non-degree programs.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60003 INFORMATION TECHNOLOGY FOR LIBRARY AND INFORMATION PROFESSIONALS

Provides basic information technology concepts and skills necessary for library and information professionals. Topics include computer hardware and software basics; operating systems; file management; software installation and configuration; basic PC applications;

information systems concepts, development and evaluation; search skills; Internet and the Web concepts, tools and applications; emerging technologies and skills.

Prerequisite: Graduate standing. This course is not open to students in non-degree programs.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60199 THESIS I

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. Prerequisite: Special approval and graduate standing.
2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Library and Information Sciences

LIS 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: LIS 60199 and graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Library and Information Sciences

LIS 60600 FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE

Social, philosophical and historical foundations; information technology and the library; types of libraries and services, nationally and internationally; professional issues, research, literature, associations and education. Prerequisite: Graduate standing. This course is not open to students in non-degree programs.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60601 INFORMATION SOURCES AND REFERENCE SERVICES

Introduction to use and evaluation of basic sources of reference information, computerized and non-computerized; reference interview and question-negotiation techniques; administration of reference and information services. Prerequisite: LIS 60001 or 80001; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60602 CATALOGING AND CLASSIFICATION I

Principles of cataloging with emphasis on Dewey Decimal and Library of Congress Classification systems, Library of Congress subject headings, online cataloging and administration. Prerequisite: LIS 60002 or 80002; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60603 CATALOGING AND CLASSIFICATION II

Theory and practice of providing description and access to library materials. Examples and assignments will be taken from all types of library materials print and non-print. Prerequisite: LIS 60002 or 80002; and LIS 60602 or 80602; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60604 RESEARCH METHODS FOR LIBRARIES AND INFORMATION CENTERS

Focuses on survey and qualitative research methods applicable to libraries and information centers. Explores research techniques, data analysis, proposal development and ethical issues. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60607 SCHOOL LIBRARY MEDIA CENTER

Management of school library media centers K-12. Prerequisite: Graduate standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60608 THE PUBLIC LIBRARY

Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship. Prerequisite: LIS 60600 or 80600; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

**LIS 60609 MARKETING THE LIBRARY**

Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60610 MANAGEMENT OF LIBRARIES AND INFORMATION CENTERS

Identifies and discusses management functions of libraries and related organizations; includes planning and decision-making, human resource management, measurement and evaluation, fiscal and project management. Prerequisite: Graduate standing. This course is not open to students in non-degree programs.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60611 GOVERNMENT INFORMATION SOURCES AND SERVICES

Library treatment of U.S. government publications with brief attention to municipal and state publications, and major documents of Great Britain, Canada and the United Nations. Will not include materials covered in LIS 60601. Prerequisite: LIS 60001 or 80001; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60612 LIBRARY MATERIALS AND SERVICES FOR ADULTS

Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60613 INFORMATION NEEDS, SEEKING AND USE

Surveys theories related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources,

communication and collaboration in the information search process, information use, and other interactions among people, information, and information systems.

Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60614 SELECTION AND ACQUISITION OF LIBRARY MATERIALS

Factors affecting selection in public, academic, school and special libraries (reading habits, censorship, publishing trends) community analysis, selection policies and process; selection sources; acquisitions. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60615 THE ACADEMIC LIBRARY

Governance, administration and services of libraries in institutions of postsecondary education. Prerequisite: LIS 60600 or 80600; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60616 THE SPECIAL LIBRARY

The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration collection development and services. Prerequisite: LIS 60600 or 80600; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60619 LEGAL INFORMATION SOURCES AND SERVICES

Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources. Prerequisites: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60620 HEALTH INFORMATION RESOURCES

Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented.

This course is designed for the health educator, librarian, nurse or other health care professional. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60621 SOCIAL SCIENCES INFORMATION SOURCES AND SERVICES

Content, bibliographic structure and communication patterns in the social sciences with emphasis on information sources and services in sociology, history, education, political science, anthropology, related disciplines. Prerequisites: LIS 60001 or 80001; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60622 SCIENCE/TECHNOLOGY INFORMATION SOURCES AND SERVICES

Content, bibliographic structure and communication patterns in the sciences with emphasis on pure and applied fields, e.g., mathematics, biology, physics. Prerequisite: LIS 60001 or 80001; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60623 BUSINESS/FINANCE INFORMATION SOURCES AND SERVICES

Historical development; applications to current business, labor, governmental, educational and sociological information needs; interpretation to executives and others; printed sources and databases. Prerequisite: LIS 60001 or 80001; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60624 CATALOGING FOR SCHOOL LIBRARY MEDIA CENTERS

Organization and administration of print and non-print materials in school library media centers. Application of appropriate descriptive cataloging rules, subject headings and classification policies for



children's, young adult and educational materials K-12. Prerequisite: Graduate standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60625 LIBRARY MATERIALS AND SERVICES FOR VERY YOUNG CHILDREN

Selection and utilization of materials in relation to needs, abilities and interests of the very young child. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60626 LIBRARY SERVICES TO YOUNG ADULTS

Selection and utilization of books and materials in relation to needs, abilities and interests of young adults. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60628 HUMANITIES INFORMATION SOURCES AND SERVICES

Philosophy, literature, fine and performing arts. Prerequisite: LIS 60001 or 80001; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60629 LIBRARY MATERIALS AND SERVICES FOR SCHOOL-AGE CHILDREN

Selection and utilization of materials in relation to needs, abilities and interests of school age children. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60630 REFERENCE SOURCES AND SERVICES FOR YOUTH

Organization and administration of information sources and information services for children and young adults (K-12). Evaluation selection and utilization of print and electronic sources. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60631 INTRODUCTION TO DIGITAL PRESERVATION

Approaches for preserving and maintaining access to digitized and born-digital text, images, data and audiovisual information. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development. Prerequisites: LIS 60002 or 80002; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60632 TECHNOLOGIES FOR DIGITAL PRESERVATION AND WEB ARCHIVING

Essential technologies for building and maintaining robust, trusted digital repositories. Emphasis is on providing orientation to technologies sufficient to allow students to work with network administrators, programmers, and other personnel involved in providing technical support to develop digital repositories for preservation and archiving functions.

Prerequisites: LIS 60631 or 80631; and 60638 or 80638; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60633 DIGITAL CURATION

Management and preservation of digital objects and records throughout their life cycle. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work. Prerequisites: LIS 60631 or 80631; and 60638 or 80638; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60637 METADATA ARCHITECTURE AND IMPLEMENTATION

Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. examination of

international standards, activities and projects with the use of case study approach. Prerequisite: LIS 60002 or 80002; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60638 DIGITAL LIBRARIES

Issues related to the development and maintenance of digital libraries, including technology, collection development and management, project management, digital preservation, user-centered design, public services, rights management and funding. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60639 IMPLEMENTATION OF DIGITAL LIBRARIES

Explores issues related to implementation of digital libraries and provides hands-on experience for student to build digital library prototypes (small-scale) with open source software. Emphasis is on design and implementation of key digital library functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness. Prerequisite: LIS 60003 or 80003; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60640 LIBRARY AUTOMATION

Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking technologies, database management systems, multimedia and hypermedia, and client-server computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation. Prerequisite: LIS 60002 or 80002; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60641 INFORMATION STORAGE AND RETRIEVAL SYSTEMS

Fundamentals of information storage and retrieval systems: components, models, file structure, information representation, human-computer interaction, standards,



protocols and evaluation of system performance. Design and evaluation of information storage and retrieval including contributions from artificial intelligence and cognitive research. Prerequisite: LIS 60002 or 80002; and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60642 IMPLEMENTATION OF INFORMATION STORAGE AND RETRIEVAL SYSTEMS

Course has dual tracks: conceptual frameworks and basic technical skills. Covers all major aspects and latest advancements of an information retrieval system and their applications. Technical skills include Unix/Linux, PERL and CGI programming. Prerequisite: LIS 60002 or 80002; and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60643 ONLINE INFORMATION SYSTEMS

Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results. Prerequisite: LIS 60001 or 80001; and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60644 INFORMATION SCIENCE

Focal areas of information science: information retrieval systems, bibliometrics, citation analysis, systems analysis and evaluation, information technologies, information theory, information architecture, knowledge management and user experience. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60645 DATABASE SYSTEMS

Characteristics and concepts of database systems; types of database models conceptual database design and implementation the relational database model and its application key issues principles and techniques current database technologies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60646 USER INTERFACES FOR INFORMATION RETRIEVAL SYSTEMS

Hardware considerations and programming for the implementation of user interfaces of computerized information retrieval systems, primarily for Web interfaces but also online public access catalogs and other networked, client server systems. Interface analysis, evaluation and design; and project design and implementation. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60647 NETWORK AND SOFTWARE RESOURCES FOR INFORMATION SYSTEMS

Study, use and evaluation of current and emerging information technologies; network and software resources for libraries and information centers, including network analysis and management, standards and protocols, and client-server technologies; and techniques for accessing and evaluating such technologies and resources. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60648 ELECTRONIC PUBLISHING ON THE WEB

Students gain the knowledge and skills to participate professionally in current electronic publishing activities, especially Web publishing and to contribute to future developments in an innovative socially responsible way. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60649 INDEXING AND ABSTRACTING

Principles and methods of manual and computerized indexing and abstracting applied to I&A databases, back of book indexes website indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I&A services in networked environments. Prerequisite: LIS 60002 or 80002; and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60650 INFORMATION POLICY

Political, economic, cultural and legal issues regarding the production, distribution and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web. Prerequisite: LIS 60600 or 80600; and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT

This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives and special collections in libraries. The students will acquire knowledge and skills necessary to design, create, and manage digital images of text, graphics, slides and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital image archives via image databases and the Web environment. Prerequisite: LIS 60002 or 80002; and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60652 FOUNDATIONS AND ADMINISTRATION OF ARCHIVES

Introduction to the knowledge domains (functions) of modern archival work, including acquisition, appraisal (selection), arrangement, description and access, preservation, reference, records management and outreach. Coverage also includes special media, such as the administration of electronic records, sound recordings and visual materials. A discussion of the role and work of archivists, historical foundations of archives, contemporary issues and conditions and professional needs and opportunities are also included. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

**LIS 60654 PRESERVATION MANAGEMENT**

Types and causes of deterioration of various kinds of materials, storage and preventive maintenance, preservation through photographic reproduction and microforms, restoration of rare materials. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60661 TECHNICAL SERVICES

Principles, problems and current issues of acquiring, processing and preserving/conserving materials in libraries and information centers. Prerequisite: LIS 60002 or 80002; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60665 RARE BOOK LIBRARIANSHIP

Study of the theory and practice of rare book librarianship through lectures, readings, discussion and practical exercises. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60666 ETHICAL CONCERNS OF LIBRARY AND INFORMATION PROFESSIONALS

Analysis of ethical concerns of information professionals: codes of ethics, intellectual freedom, free access, privacy, confidentiality, computer issues and relations with management, clients and colleagues. Prerequisite: LIS 60600 or 80600; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60670 CULMINATING EXPERIENCE

Under advisement of a faculty member, students will complete a project that serves as a culminating experience for the M.L.I.S. degree. The project may be a research paper, individual project or culminating practicum. Prerequisite: LIS 60001 and LIS 60002 and LIS 60003 and LIS 60600 and LIS 60610 and special approval and graduate standing. This course is not open to students in non-degree programs.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Library and Information Sciences

LIS 60691 SEMINAR IN LIBRARY SCIENCE

Advanced research by small groups of students who are qualified to examine problems of certain special areas.

Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Library and Information Sciences

LIS 60692 PRACTICUM-LIBRARIES AND INFORMATION CENTERS

Supervised library or information center work experience of a professional nature of not less than 100 clock hours, directed readings and preparation of a paper. May not be repeated. Prerequisite: Graduate standing and special approval.

2.000 OR 3.000 Credit hours

2.000 OR 3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Library and Information Sciences

LIS 60693 VARIABLE TITLE WORKSHOP-LIBRARY AND INFORMATION SCIENCE

Intensive examination of special topics of interest to practicing librarians. May be repeated. Maximum workshop credit accepted for MLIS degree is 4 semester hours. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Library and Information Sciences

LIS 60694 COLLEGE TEACHING OF LIBRARY SCIENCE

Staff training and experience in college teaching. Repeated registration permitted up to 10 hours. Maximum of 2 hours applicable toward master's degree requirements (with dean's approval).

Prerequisite: Special approval and graduate standing.

2.000 OR 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60695 SPECIAL PROBLEMS IN LIBRARY SCIENCE

Individual research at high levels of specialization. Intended for persons in sixth year program. Repeated registration is permitted. Prerequisite: Graduate standing and special approval.

1.000 TO 10.000 Credit hours

1.000 TO 10.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60700 FOUNDATIONS OF MUSEUM STUDIES

Intended for those interested in learning more about museums, but from the perspective of a librarian or trained information professional. Exposes students to various aspects of museums, including but not limited to: types of museums; history of museums; organization of museums; issues confronting museums; collections of museums (and how they are exhibited); architecture of museums; and role(s) of museums in a community and in society. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60701 MUSEUM COLLECTIONS

This course introduces students to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects. Prerequisite: LIS 60700; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60702 MUSEUM COMMUNICATION

Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. This course introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration. Prerequisite: LIS 60700 or 80700; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 60703 MUSEUM USERS

Families, individuals and students visit museums and community institutions for a variety of purposes including leisure, education and curiosity. Introduction to the research and theory on museum user experience. Inquiry involves examining notions of learning, engagement, and transformative experiences of users, characteristics of users and the social dynamics of the museum experience. In addition, reviews several programmatic techniques and methods used in museums to increase engagement and learning for patrons. Prerequisite: LIS 60700; and graduate standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 60792 INTERNSHIP IN LIBRARY SUPERVISION AND MANAGEMENT

Supervised library work experience of an advanced professional nature that concentrates on developing skills in supervision and management. Intended for persons in the sixth-year program. Prerequisite: Graduate standing and special approval.

2.000 TO 10.000 Credit hours

2.000 TO 10.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Library and Information Sciences

LIS 60870 CULMINATING EXPERIENCE FOR DUAL DEGREE

Culminating experience for students pursuing dual degree in M.Ed./MLIS and K-12 school Library Media licensure. Must be in a supervised educational library or information center. Must not be less than 200 hours of professional work.

Prerequisites: CI 67330 and 67310; and EPSY 65524; and LIS 60001 and 60002 and 60600 and 60607 and 60624 and 60626 and 60629 and 60630; and SEED 62146; and SPED 63200; and graduate standing; and special approval.

6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Library and Information Sciences

LIS 61095 SELECTED TOPICS IN LIBRARY SCIENCE

Offered irregularly as resources and/or opportunities permit. Topics will be announced in the schedule of classes.

Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 61096 INDIVIDUAL INVESTIGATION

Research or individual investigation for master's level graduate students. Maximum credit per registration 2 hours. Maximum credit toward master's degree 4 hours. Prerequisite: Special approval and graduate standing.

1.000 TO 2.000 Credit hours

1.000 TO 2.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Library and Information Sciences

LIS 80001 ACCESS TO INFORMATION

Examination of information access issues. Topics include discussion of information

needs, use of information sources, and information access services. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80002 ORGANIZATION OF INFORMATION

Introduction to the theory and practice of organizing information in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80003 INFORMATION TECHNOLOGY FOR LIBRARY AND INFORMATION PROFESSIONALS

Provides basic information technology concepts and skills necessary for library and information professionals. Topics include computer hardware and software basics; operating systems; file management; software installation and configuration; basic PC applications; information systems concepts, development, and evaluation; search skills; Internet and web concepts, tools, and applications; emerging technologies and tools. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80600 FOUNDATIONS OF LIBRARY AND INFORMATION SCIENCE

Social, philosophical and historical foundations; information technology and the library; types of libraries and services, national and internationally; professional issues, research, literature, associations and education. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80601 INFORMATION SOURCES AND REFERENCE SERVICES

Introduction to use and evaluation of basic sources of reference information, computerized and non-computerized; reference interview and question-negotiation techniques; administration of reference and information services.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80602 CATALOGING AND CLASSIFICATION I

Principles of cataloging with emphasis on Dewey Decimal and Library of Congress Classification systems, Library of Congress subject headings, online cataloging and administration. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80603 CATALOGING AND CLASSIFICATION II

Theory and practice of providing description and access to library materials. Examples and assignments will be taken from all types of library materials, print and non-print. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80604 RESEARCH METHODS FOR LIBRARIES AND INFORMATION CENTERS

Focuses on survey and qualitative research methods applicable to libraries and information centers. Explores research techniques, data analysis, proposal development and ethical issues.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80607 SCHOOL LIBRARY MEDIA CENTER

Management of school library media centers K-12. Prerequisites: doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80608 THE PUBLIC LIBRARY

Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Library and Information Sciences

LIS 80609 MARKETING THE LIBRARY

Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80610 MANAGEMENT OF LIBRARY AND INFORMATION CENTERS

Identifies and discusses management functions of libraries and related organizations; includes planning and decision-making, human resource management, measurement and evaluation, fiscal and project management. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80611 GOVERNMENT INFORMATION SOURCES AND SERVICES

Library treatment of U.S. government publications, with brief attention to municipal and state publications, and major documents of Great Britain, Canada and the United Nations. Will not include materials covered in LIS 8/60601. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80612 LIBRARY MATERIALS AND SERVICES FOR ADULTS

Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80613 INFORMATION NEEDS, SEEKING AND USE

Surveys theories related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and collaboration in the

information search process, information use, and other interactions among people, information, and information systems. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80614 SELECTION AND ACQUISITION OF LIBRARY MATERIALS

Factors affecting selection in public, academic, school and special libraries (reading habits, censorship, publishing trends); community analysis, selection policies and process; selection sources; acquisitions. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80615 THE ACADEMIC LIBRARY

Governance, administration and services of libraries in institutions of postsecondary education. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80616 THE SPECIAL LIBRARY

The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration, collection development and services. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80619 LEGAL INFORMATION SOURCES AND SERVICES

Fundamentals of legal research methods and major sources of American legal literature in print and electronic formats as used in other disciplines. Students learn how to formulate a research plan based on legal analysis of issues using relevant, authoritative legal resources. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80620 HEALTH INFORMATION RESOURCES

Identifies print and electronic sources of health information with emphasis on

electronic sources. Medical patient and consumer health information is presented. This course is designed for the health educator, librarian, nurse or other health care professional. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80621 SOCIAL SCIENCES INFORMATION SOURCES AND SERVICES

Content, bibliographic structure and communication patterns in the social sciences with emphasis on information sources and services in sociology, history, education, political science, anthropology, related disciplines. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80622 SCIENCE AND TECHNOLOGY INFORMATION SOURCES AND SERVICES

Content, bibliographic structure and communication patterns in the sciences with emphasis on pure and applied fields, e.g., mathematics, biology, physics. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80623 BUSINESS AND FINANCE INFORMATION SOURCES AND SERVICES

Historical development; applications to current business, labor, governmental, educational and sociological information needs; interpretation to executives and others; printed sources and databases. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80624 CATALOGING FOR SCHOOL LIBRARY MEDIA CENTERS

Organization and administration of print and non-print materials in school library media centers. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, young adult, and educational materials K-12. Prerequisite: doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate



Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80625 LIBRARY MATERIALS AND SERVICES FOR VERY YOUNG CHILDREN

Selection and utilization of materials in relation to needs, abilities and interests of the very young child. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80626 LIBRARY SERVICES TO YOUNG ADULTS

Selection and utilization of books and materials in relation to needs, abilities and interests of young adults. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80628 HUMANITIES INFORMATION SOURCES AND SERVICES

Philosophy, literature, fine and performing arts. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80629 LIBRARY MATERIALS AND SERVICES FOR SCHOOL AGE CHILDREN

Selection and utilization of materials in relation to needs, abilities and interests of Department-age children. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80630 REFERENCE SOURCES AND SERVICES FOR YOUTH

Organization and administration of information sources and information services for children and young adults (K-12). Evaluation, selection and utilization of print and electronic sources. Prerequisite: doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80631 INTRODUCTION TO DIGITAL PRESERVATION

Approaches for preserving and maintaining access to digitized and born-digital text,

images, data and audiovisual information. Topics include longevity of digital media, selection for preservation; formats and strategies for preservation; preservation metadata; integrity and authenticity of digital materials; establishment and certification of trustworthy digital repositories; risk management; and policy development. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80632 TECHNOLOGIES FOR DIGITAL PRESERVATION AND WEB ARCHIVING

Essential technologies for building and maintaining robust, trusted digital repositories. Emphasis is on providing orientation to technologies sufficient to allow students to work with network administrators, programmers, and other personnel involved in providing technical support to develop digital repositories for preservation and archiving functions. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80633 DIGITAL CURATION

Management and preservation of digital objects and records throughout their life cycle. Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80637 METADATA ARCHITECTURE AND IMPLEMENTATION

Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80638 DIGITAL LIBRARIES

Issues related to the development and maintenance of digital libraries, including technology, collection development and management, project management, digital preservation, user-centered design, public services, rights management and funding. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80639 IMPLEMENTATION OF DIGITAL LIBRARIES

Explores issues related to implementation of digital libraries and provides hands-on experience for students to build digital library prototypes (small-scale) with open source software. The major emphasis is on design and implementation of key digital library functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80640 LIBRARY AUTOMATION

Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking technologies, database management systems, multimedia and hypermedia, and client-serving computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80641 INFORMATION STORAGE AND RETRIEVAL SYSTEMS

Fundamentals of information storage and retrieval systems: components, models, file structure, information representation, human-computer interaction, standards, protocols and evaluation of system performance. Design and evaluation of information storage and retrieval including contributions from artificial intelligence and cognitive research. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

**LIS 80642 IMPLEMENTATION OF INFORMATION STORAGE AND RETRIEVAL SYSTEMS**

Course has dual tracks: conceptual frameworks and basic technical skills. Covers all major aspects and latest advancements of an information retrieval system and their applications. Technical skills include Unix Linux, PERL and CGI programming. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80643 ONLINE REFERENCE SYSTEMS

Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80644 INFORMATION SCIENCE

Focal areas of information science: information retrieval systems, bibliometrics, citation analysis, systems analysis and evaluation, information technologies, information theory, information architecture, knowledge management and user experience. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80645 DATABASE SYSTEMS

Characteristics and concepts of database systems; types of database models; conceptual database design and implementation; the relational database model and its application: key issues, principles and techniques; current database technologies. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80646 USER INTERFACES FOR INFORMATION RETRIEVAL SYSTEMS

Hardware considerations and programming for the implementation of user interfaces of computerized information retrieval systems, primarily for Web interfaces, but also for online public access catalogs and other networked, client-server systems. Interface

analysis, evaluation and design; project design and implementation. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80647 NETWORK AND SOFTWARE RESOURCES FOR INFORMATION SYSTEMS

Study, use and evaluation of current and emerging information technologies; network and software resources for libraries and information centers, including network analysis and management, standards, protocols and client-server technologies; and techniques for accessing and evaluating such technologies and resources. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80648 ELECTRONIC PUBLISHING ON THE WEB

Students gain the knowledge and skills to participate professionally in current electronic publishing activities, especially Web publishing, and to contribute to future developments in an innovative, socially responsible way. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80649 INDEXING AND ABSTRACTING

Principles and methods of manual and computerized indexing and abstracting applied to I&A databases, back-of-book indexes, Web site indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats and subjects. Automation and I&A services in networked environments. Prerequisites: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80650 INFORMATION POLICY

Political, economic, cultural and legal issues regarding the production, distribution, and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of

information and the Internet and the World Wide Web. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80651 DIGITAL IMAGE PROCESSING AND COLLECTION MANAGEMENT

This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives, and special collections in libraries. The students will acquire knowledge and skills necessary to design, create and manage digital images of text, graphics, slides, and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital-image archives via image databases and the Web environment. Prerequisites: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80652 FOUNDATIONS AND ADMINISTRATION OF ARCHIVES

Introduction to the knowledge domains (functions) of modern archival work, including acquisition, appraisal (selection), arrangement, description and access, preservation, reference, records management, and outreach. Coverage also includes special media, such as the administration of electronic records, sound recordings, and visual materials. A discussion of the role and work of archivists, historical foundations of archives, contemporary issues and conditions, and professional needs and opportunities are also included. Prerequisites: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80654 PRESERVATION MANAGEMENT

Types and causes of deterioration of various kinds of materials, storage and preventive maintenance, preservation through photographic reproduction and microforms, restoration of rare materials. Prerequisites: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

**LIS 80661 TECHNICAL SERVICES**

Principles, problems and current issues of acquiring, processing, preserving and conserving materials in libraries and information centers. Prerequisites: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80665 RARE BOOK LIBRARIANSHIP

Study of the theory and practice of rare book librarianship through lectures, readings, discussion and practical exercises. Prerequisites: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80666 ETHICAL CONCERNS OF LIBRARY AND INFORMATION PROFESSIONALS

Analysis of ethical concerns of information professionals: codes of ethics, intellectual freedom, free access, privacy, confidentiality, computer issues and relations with management, clients and colleagues. Prerequisites: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80691 SEMINAR IN LIBRARY SCIENCE

Advanced research by small groups of students who are qualified to examine problems of certain special areas.

Prerequisites: doctoral standing.
1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours
Level: Graduate

Schedule Types: Seminar
Department: Library and Information Sciences

LIS 80694 COLLEGE TEACHING OF LIBRARY SCIENCE

Staff training and experience in college teaching. Prerequisites: doctoral standing and special approval.

2.000 OR 3.000 Credit hours
2.000 OR 3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80695 SPECIAL PROBLEMS IN LIBRARY SCIENCE

Individual research at high levels of specialization. Repeated registration is permitted. Prerequisites: doctoral standing and special approval.

1.000 TO 10.000 Credit hours

1.000 TO 10.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Library and Information Sciences

LIS 80700 FOUNDATIONS OF MUSEUM STUDIES

Intended for those interested in learning more about museums, but from the perspective of a librarian or trained information professional. Exposes students to various aspects of museums, including but not limited to: types of museums; history of museums; organization of museums; issues confronting museums; collections of museums (and how they are exhibited); architecture of museums; and role(s) of museums in a community and in society. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80701 MUSEUM COLLECTIONS

Introduction to the organization, care and meaning of objects held in museum collections. Through both theoretical and practical concepts, basic collection management and registration skills are introduced. In conjunction, students explore the meanings made of museum objects. Prerequisite: LIS 60700 or LIS 80700; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80702 MUSEUM COMMUNICATION

Museums communicate to the public in a multitude of ways: interpretation, exhibition, publication, educational programming and using a web presence. Introduces important concepts, theories, applications, processes and technology used in museum interpretation and communication. Students are provided with a balance of practical techniques with thoughtful conceptual exploration. Prerequisite: LIS 60700 or LIS 80700; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 80703 MUSEUM USERS

Families, individuals, and students visit museums and community institutions for a variety of purposes including leisure, education, and curiosity. Introduction to the research and theory on museum user experience. Inquiry involves examining notions of learning, engagement, and transformative experiences of users, characteristics of users, and the social dynamics of the museum experience. In

addition, reviews several programmatic techniques and methods used in museums to increase engagement and learning for patrons. Prerequisite: LIS 60700 or LIS 80700; doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 81095 SELECTED TOPICS IN LIBRARY SCIENCE

Offered irregularly as resources and or opportunities permit. Topics will be announced in the Schedule of Classes.

Prerequisites: doctoral standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Library and Information Sciences

LIS 81096 INDIVIDUAL INVESTIGATION

Research or individual investigation for doctoral level students. Prerequisites: doctoral standing

1.000 TO 2.000 Credit hours

1.000 TO 2.000 Other hours

Level: Graduate
Schedule Types: Individual Investigation
Department: Library and Information Sciences

Mathematics (MATH)**MATH 10006 BASIC ALGEBRA I AND II**

Covers exactly the same topics as MATH 10021 and 10022 combined. Not offered on every campus. Hours not counted toward graduation. Prerequisite: none.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 10007 BASIC ALGEBRA III AND IV

Covers exactly the same topics as MATH 10023 and 10024 combined. Not offered on all campuses. Prerequisite or corequisite: minimum C (2.0) grade in MATH 10006 or in MATH 10022.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 10020 PRE-ALGEBRA

Properties of whole numbers, fractions, decimals, percents, signed numbers and order of operations, to a greater degree than in Core Math I and Core Math II. Mental math and elementary algebraic thinking skills are emphasized and use of calculators is not allowed. Hours not counted toward graduation. Prerequisite: none.

2.000 Credit hours

2.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 10021 BASIC ALGEBRA I

Includes operations on integers, fractions, decimals and percents, properties of real numbers. Introduction to variables, first degree equations and problem-solving with formulas. Equations and inequalities in one variable, linear equations, rate of change and slope, graphing in the Cartesian plane. Hours do not count toward graduation.

Prerequisite: none.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 10022 BASIC ALGEBRA II

Introduction to functions, systems of linear equations, exponents, polynomial operations, scientific notation. Factoring polynomials, solving quadratics by factoring, radicals and rational exponents. Hours not counted toward graduation.

Prerequisite or corequisite: minimum C (2.0) grade in MATH 10021.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 10023 BASIC ALGEBRA III

Zeros of functions, rational expressions and equations, problem-solving with rational expressions, intermediate factoring techniques. Quadratics: functions, graphs, equations, inequalities, "quadratic type" equations and problem-solving.

Prerequisite or corequisite: minimum C (2.0) grade in MATH 10006 or 10022.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 10024 BASIC ALGEBRA IV

Advanced factoring techniques, rational functions, radical equations, absolute value equations and inequalities. Exponential and logarithmic functions: introduction, graphing, problem-solving. Prerequisite or corequisite: minimum C (2.0) grade in MATH 10023.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 10041 ELEMENTARY PROBABILITY AND STATISTICS

Descriptive statistics, probability concepts, binomial and normal distributions. Sampling, estimation, hypothesis testing. Analysis of paired data, linear models and correlation. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Students should have

appropriate placement scores, or have minimum C (2.0) grade in MATH 10007 or any math course higher than 10023. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 11008 EXPLORATIONS IN MODERN MATHEMATICS

Topics from various branches of mathematics will be chosen to introduce the student to the wide varieties of ways in which mathematics affects everyday life. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement.

Students should have appropriate placement scores (at least ACT 22 or equivalent), or have a minimum C (2.0) grade in MATH 10007 or any math course numbered MATH 10023 or higher before taking this course. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning

MATH 11009 MODELING ALGEBRA

Study of algebra arising in the context of real-world applications, including linear, polynomial, exponential and logarithmic models. Intended for students not planning to take calculus. No graduation credit for this course for students who have already passed MATH 11010. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Students should have appropriate placement scores (at least ACT 22 or equivalent), or have a minimum C (2.0) grade in MATH 10023 or MATH 10007 before taking this class. Prerequisite: none.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning

MATH 11010 ALGEBRA FOR CALCULUS

Study of elementary functions and graphs, including polynomial, exponential and logarithmic functions; complex numbers; binomial theorem. No credit earned for this course if student earned credit for MATH 11011 or 12001. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Students should have appropriate placement scores (at least ACT 22 or equivalent), or have a minimum C (2.0) grade in MATH 10007 or 10024 before taking this class. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning, Transfer Module-Mathematics

MATH 11012 INTUITIVE CALCULUS

Designed to give an overview of differential and integral calculus to business and life-science majors. Does not include trigonometric functions. No credit earned for this course if student earned credit for MATH 12002. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Students should have appropriate placement scores, or have minimum C (2.0) grade in MATH 11010 before taking this class. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning, Transfer Module-Mathematics

MATH 11022 TRIGONOMETRY

Solution of triangles, trigonometric equations and identities. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Students should have appropriate placement scores, or take MATH 11010 concurrently, or have minimum C (2.0) grade in MATH 11010 before taking this class. Prerequisite: none.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Transfer Module-Mathematics

MATH 12002 ANALYTIC GEOMETRY AND CALCULUS I

Concepts of limit, continuity and derivative, and the indefinite and definite integral for functions of one real variable. Maximization, related rates, fundamental theorem of calculus. No credit earned for this course if student earned credit for MATH 12011 or 12012. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Prerequisite: minimum C (2.0) grade in MATH 11010 and MATH 11022.

5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning, TAG Mathematics, Transfer Module-Mathematics

MATH 12003 ANALYTIC GEOMETRY AND CALCULUS II

Continued study of techniques and applications of integration; trigonometric, logarithmic and exponential functions; polar coordinates; vectors; parametric equations; sequences and series. Prerequisite: MATH 12002 or MATH 12012.



5.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: TAG Mathematics

MATH 12011 CALCULUS WITH PRECALCULUS I

Introduction to differential calculus with a review of algebra and trigonometry. Includes exponents, factoring, functions, graphs, tangent lines, limits, continuity, derivatives and related rates. No credit earned for this course is student earned credit for MATH 12002. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Prerequisite: minimum 55 COMPASS algebra score and either minimum 480 SAT math score or minimum 20 ACT math score; or minimum 36 COMPASS algebra score and either minimum 620 SAT math score or minimum 27 ACT math score.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning, Transfer Module-Mathematics

MATH 12012 CALCULUS WITH PRECALCULUS II

Development of integral calculus and continued study of differential calculus. Includes curve sketching optimization fundamental theorem of calculus areas between curves, exponential and logarithmic functions. No credit earned for this course if student earned credit for MATH 12002. Prerequisite: MATH 12011.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning, Transfer Module-Mathematics

MATH 12021 CALCULUS FOR LIFE SCIENCES

Differential and integral calculus using examples and problems in life sciences. Prerequisite: Integrated life science (ILS) major.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 12022 PROBABILITY AND STATISTICS FOR LIFE SCIENCES

Probability and statistics with applications in medical and biological sciences. Prerequisite: MATH 12002 or MATH 12012 or MATH 12021.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Mathematics

MATH 14001 BASIC MATHEMATICAL CONCEPTS I

Development of the real number system and its sub-systems, open sentences, numeration systems, modular arithmetic and some number theory concepts. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Students should have appropriate placement scores (at least ACT 22 or equivalent), or have minimum C (2.0) grade in MATH 10007 or any math course higher than 10023 before taking this class. Prerequisite: none.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning

MATH 14002 BASIC MATHEMATICAL CONCEPTS II

Basic concepts of probability, statistics and geometry. Prerequisite: MATH 14001.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning

MATH 19001 TECHNICAL MATHEMATICS I

Introduction to geometry, algebra and trigonometry. For students in the engineering technologies. Prerequisite: Special approval.
4.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 19002 TECHNICAL MATHEMATICS II

Continuation of MATH 19001. Emphasizes advanced topics in algebra and trigonometry, analytic geometry, derivatives and integrals. Prerequisite: MATH 19001.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 19099 FIELD EXPERIENCE IN MATHEMATICS INSTRUCTION

Learning through tutoring. A supervised lab experience in providing explanations of mathematical concepts. May be repeated in a different area. Prerequisite: Special approval.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 20095 SPECIAL TOPICS IN MATHEMATICS

Various special courses will be announced in the schedule of classes under this course number with different section numbers. Repeated registration permitted. Prerequisite: Permission.
1.000 TO 5.000 Credit hours
5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Kent Core-Mathematics and Critical Reasoning

MATH 21001 LINEAR ALGEBRA WITH APPLICATIONS

Systems of linear equations and the associated matrix operations, linear transformations, vector spaces, bases, eigenvectors. Prerequisite: MATH 11012 or MATH 12002.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: TAG Mathematics

MATH 21003 INTRODUCTION TO SYSTEMS ANALYSIS AND DATA COMMUNICATIONS

Background in the topic of systems analysis, design development and implementation including an overview of teleprocessing. Prerequisite: MIS 24080.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 21092 COMPUTER PRACTICUM

Supervised work experience in a computer installation. Prerequisite: None.
2.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Mathematics

MATH 22005 ANALYTIC GEOMETRY AND CALCULUS III

Study of functions of several variables, including partial derivatives and multiple integrals. Prerequisite: MATH 12003.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: TAG Mathematics

MATH 23022 DISCRETE STRUCTURES FOR COMPUTER SCIENCE

Discrete structures for computer scientists with a focus on: mathematical reasoning, combinatorial analysis, discrete structures, algorithmic thinking, applications and modeling. Specific topics include logic, sets, functions, relations, algorithms, proof techniques, counting, graphs, trees, Boolean algebra, grammars and languages. No credit for MATH 31011. Prerequisite: CS



10051 and a grade of C (2.0) or better in MATH 11010; or a Compass Algebra score of 55 or better and either SAT Math score of 540 or better or ACT Math score 23 or better.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 30011 BASIC PROBABILITY AND STATISTICS

Analysis and representation of data. Controlled experiments and observations. Measurement errors. Correlation and regression. Sampling. Probability models and tests of models. Inference. Prerequisite: Grade of C (2.0) or better in MATH 11010.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 30055 MATHEMATICAL THEORY OF INTEREST

A calculus-based introduction to the mathematics of finance. Limited to deterministic analysis of interest rates annuities bonds and immunization. Emphasizes the mathematical theory of the subject matter. Prerequisite: MATH 12003.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 31011 DISCRETE MATHEMATICS

Discrete mathematical techniques and structures including finite set theory, graph theory, propositional calculus, combinatorics and discrete probability. Formal methodology and proof techniques. No credit for MATH 23022. Prerequisite: MATH 12002. Pre/corequisite: MATH 21001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 31045 FORMAL LOGIC

Study of first order predicate calculus with identity and function symbols. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 32044 INTRODUCTION TO ORDINARY DIFFERENTIAL EQUATIONS

An introduction to ordinary differential equations and applications. Topics include solution methods, series solutions and singular points. Laplace transforms and linear systems. Applications include population dynamics, forced oscillations

and resonance. Prerequisites: MATH 21001 and MATH 22005.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: TAG Mathematics

MATH 32051 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES I

Mathematics background beyond Calculus I and II for upper-division courses in the physical sciences. Topics include complex numbers and arithmetic, linear algebra, partial differentiation and multiple integrals. Prerequisite: MATH 12003.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 32052 MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES II

Additional mathematics background for upper-division courses in the physical sciences. Topics include vector analysis, Fourier series and transforms ordinary differential equations and partial differential equations. Prerequisites: MATH 32051 or MATH 21001; and MATH 22005.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 34001 FUNDAMENTAL CONCEPTS OF ALGEBRA

Professionalized course in algebra for prospective secondary teachers. Postulational development of number system of algebra; other systems, related topics, applications. Prerequisite: MATH 12002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 34002 FUNDAMENTAL CONCEPTS OF GEOMETRY

Professionalized course in geometry for secondary school teachers. Origin and development of the geometry of Euclid with modern refinements, topics, approaches. Other geometries, applications. Prerequisite: MATH 12002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40011 INTRODUCTION TO PROBABILITY THEORY AND APPLICATIONS

Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Bayes's

formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems. Prerequisite: MATH 12003.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40012 INTRODUCTION TO STATISTICAL CONCEPTS

Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods. Prerequisite: MATH 40011.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40022 LINEAR MODELS AND STATISTICAL ANALYSIS

Regression model, multivariate normal distribution, point and interval estimates, Gauss-Markov Theorem, correlation and regression, tests of hypotheses, applications. Prerequisite: MATH 21001 and MATH 40012.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40031 BASIC NONPARAMETRIC STATISTICS

Rank tests for different kinds of hypothesis, large sample theory, efficiency comparisons, tests of Kolmogorov-Smirnov type. Prerequisite: MATH 40012.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40041 STATISTICAL METHODS FOR EXPERIMENTS

Comparison of two groups, t- and F-statistics; ANOVA, one-way and multiway layouts, randomization blocking. Linear regression, correlation and analysis of covariance (ANCOVA). Repeated measures analysis of variance.

Prerequisite: MATH 30011.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40042 SAMPLING THEORY

This introductory course provides the methodology for the design and analysis of sampling and surveying studies. Simple random, stratified, cluster, PPS and two-stage sampling techniques. Linear, ratio and regression estimators. Prerequisite: MATH 30011.

3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES

Topics from conditional expectations, Markov chains, Markov processes, Brownian motion and Martingales and their applications to stochastic calculus. Prerequisite: MATH 40011.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40055 ACTUARIAL MATHEMATICS I

Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. Prerequisite: MATH 30055 and MATH 40011.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40056 ACTUARIAL MATHEMATICS II

Benefit premiums, benefit reserves and their analysis, decrement models, joint survivorship, risk models. Prerequisite: MATH 40055.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 40091 SEMINAR IN ACTUARIAL MATHEMATICS

Seminar course designed to prepare students for the society of actuaries examination on actuarial mathematics. Prerequisite: MATH 40056.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Mathematics

MATH 40093 VARIABLE TITLE WORKSHOP IN MATHEMATICS

Studies special topics in mathematics. Not acceptable for credit toward a major or minor in math without approval of student's adviser. S u/graded. Prerequisite: Permission.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Mathematics

MATH 41001 INTRODUCTION TO MODERN ALGEBRA I

Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains, and homomorphisms.

Prerequisite: MATH 21001 and MATH 22005.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Writing Intensive Course

MATH 41002 INTRODUCTION TO MODERN ALGEBRA II

A continuation of MATH 41001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructability. Prerequisite: MATH 41001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Writing Intensive Course

MATH 41012 FINITE MATHEMATICS

A continuation of Discrete Math, emphasizing combinatorial techniques, graph applications in algorithms, finite algebra, number theory and probability. Covers useful math for CS majors. Prerequisite: CS 31011 or MATH 31011.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 41021 THEORY OF MATRICES

A rigorous study of the topics introduced in matrix algebra. Topics included are vector space preliminaries, canonical forms of matrices, diagonalizability criteria. Prerequisite: MATH 21001 and MATH 22005.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 41045 METALOGIC

May be counted toward B.A. or B.S. mathematics major. Consideration of various metatheorems, including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus and incompleteness of the theory of arithmetic. Prerequisite: PHIL 31045.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 42001 INTRODUCTION TO ANALYSIS I

Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration. Prerequisite: MATH 21001 and MATH 22005.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Writing Intensive Course

MATH 42002 INTRODUCTION TO ANALYSIS II

Topics include further development of integration theory, infinite series, uniform convergence, several variable calculus and metric spaces. Prerequisite: MATH 42001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics
Course Attributes: Writing Intensive Course

MATH 42011 MATHEMATICAL OPTIMIZATION

Analytic and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered. Prerequisite: MATH 21001 and MATH 22005.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 42021 GRAPH THEORY AND COMBINATORICS

Fundamentals and applications of combinatorial mathematics. Topics include traversability, colorability, networks, inclusion and exclusion, matching and designs. Prerequisite: MATH 21001 and MATH 12003.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 42024 NUMBERS AND GAMES

The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory. Prerequisite: MATH 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

MATH 42031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS

Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization dynamical systems and probability are developed and applied. Modern software tools are utilized. Prerequisite: MATH 32044 or 32052.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Mathematics

**MATH 42041 ADVANCED CALCULUS**

The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus.

Applications to field theories, electricity and magnetism, and fluid flow. Prerequisite: MATH 21001 and MATH 22005.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 42045 INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS

An introduction to Fourier series, Fourier transforms and partial differential equations.

Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the Method of Characteristics for wave equations.

Prerequisite: MATH 32044.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 42048 INTRODUCTION TO COMPLEX VARIABLES

Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications.

Prerequisite: MATH 22005.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 42091 SEMINAR: MODELING PROJECTS

Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports are required. Prerequisite: MATH 42031.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Mathematics

Course Attributes: Writing Intensive Course

MATH 42201 INTRODUCTION TO NUMERICAL COMPUTING I

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-squares data fitting, nonlinear equations and systems, and optimization problems. Prerequisite: MATH 12003; and MATH 21001 or MATH 32051; and CS 10061 or CS 23021.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 42202 INTRODUCTION TO NUMERICAL COMPUTING II

A continuation of MATH 42201. Topics include interpolation, numerical

differentiation and integration, and numerical solution of ordinary differential equations. Prerequisite: MATH 42201; and MATH 32044 or 32052.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 45011 DIFFERENTIAL GEOMETRY

Analytic and metric differential geometry of curves and surfaces. Prerequisite: MATH 22005.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 45021 EUCLIDEAN GEOMETRY

Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross-ratio, groups, constructions, geometric generalizations; inversion.

Prerequisite: MATH 21001 or special approval of instructor.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 45022 LINEAR GEOMETRY

Using transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry. Prerequisite: MATH 21001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 46001 ELEMENTARY TOPOLOGY

Metric spaces, introduction to topological spaces, separation axioms. Prerequisite: MATH 22005.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 47001 MATHEMATICAL LOGIC AND SET THEORY

Axiomatic set theory, relations development of real numbers cardinal numbers axiom of choice. Prerequisite: Permission.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 47011 THEORY OF NUMBERS

Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations.

Prerequisite: MATH 12003.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 47021 HISTORY OF MATHEMATICS

Survey from Babylonian and Egyptian mathematics to 20th century mathematics with emphasis on the development of algebra, geometry, calculus, number theory. Prerequisite: 3 hours of mathematics beyond MATH 22005.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 49995 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS

(repeated registration permitted) various special courses will be announced in the schedule of classes under this course number with different section numbers.

Prerequisite: Permission.

1.000 TO 4.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Mathematics

MATH 49996 INDIVIDUAL STUDY

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Mathematics

MATH 49998 RESEARCH

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Research

Department: Mathematics

MATH 50011 INTRODUCTION TO PROBABILITY THEORY AND APPLICATIONS

Permutations and combinations, discrete and continuous distributions, random variables, conditional probabilities, Baye's formula, mathematical expectation, law of large numbers, normal approximations, basic limit theorems. Prerequisite: MATH 12003 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 50012 INTRODUCTION TO STATISTICAL CONCEPTS

Sample spaces, continuous distributions, sampling distributions, point and interval estimation, hypothesis testing, types of error, level and power of tests, sequential and nonparametric methods. Prerequisite: MATH 4/50011 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Mathematics

MATH 50022 LINEAR MODELS AND STATISTICAL ANALYSIS

Regression model. Multivariate normal distribution. Point and interval estimates. Gauss Markov theorem. Correlation and regression. Tests of hypotheses.

Applications. Prerequisite: MATH 21001 and 4/50012 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 50031 BASIC NON-PARAMETRIC STATISTICS

Rank tests for different kinds of hypotheses, large sample theory, efficiency comparisons, tests of Kolmogorov Smirnov type. Prerequisite: MATH 4/50012 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 50041 STATISTICAL METHODS FOR EXPERIMENTS

Comparison of two groups, t and F-statistics, ANOVA, one-way and multiway layouts, randomization, blocking. Linear regression, correlation and analysis of covariance (ANCOVA). Repeated measures-analysis of variance.

Prerequisite: MATH 30011. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 50042 SAMPLING THEORY

This introductory course provides the methodology for the design and analysis of sampling and surveying studies. Simple random, stratified, cluster, PPS and two stage sampling techniques. Linear, ratio and regression estimators. Prerequisite: MATH 30011.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 50051 TOPICS IN PROBABILITY THEORY AND STOCHASTIC PROCESSES

Topics from conditional expectations, Markov chains, Markov processes, Brownian Motion and Martingales and their applications to stochastic calculus.

Prerequisite: MATH 50011 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 50055 ACTUARIAL MATHEMATICS I

Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. Prerequisite: MATH 30055 and 50011; graduate standing.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 50056 ACTUARIAL MATHEMATICS II

Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models. Prerequisite: MATH 50055; graduate standing.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 50091 SEMINAR IN ACTUARIAL MATHEMATICS

Seminar course designed to prepare students for the society of actuaries examination on actuarial mathematics.

Prerequisite: MATH 50056; graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 51001 INTRODUCTION TO MODERN ALGEBRA I

Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms.

Prerequisite: MATH 21001 and 22005.

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 51002 INTRODUCTION TO MODERN ALGEBRA II

A continuation of MATH 51001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructability. Prerequisite: MATH 4/51001. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 51012 FINITE MATHEMATICS

Mathematics: emphasizing combinatorial techniques, graph applications in algorithms, finite algebra, number theory and probability. Covers useful mathematics for CS majors. Prerequisite: CS 31011 or MATH 31011. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 51021 THEORY OF MATRICES

A rigorous study of the topics introduced in matrix algebra. Topics included are:

canonical forms of matrices, diagonalizability criteria. Prerequisite:

MATH 21001 and 22005. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 51045 METALOGIC

Consideration of various metatheorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus, and incompleteness of the theory of arithmetic. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52001 INTRODUCTION TO ANALYSIS I

Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration. Prerequisite: MATH 21001 and 22005. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52002 INTRODUCTION TO ANALYSIS II

Topics include further development of integration theory infinite series, uniform convergence, several variable calculus and metric spaces. Prerequisite: MATH 4/52001 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52011 MATHEMATICAL OPTIMIZATION

Analytical and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered. Prerequisite: MATH 21001 and 22005. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52021 GRAPH THEORY AND COMBINATORICS

Fundamentals and applications of combinatorial mathematics. Topics include



transversability, colorability, networks, inclusion and exclusion, matching and designs. Prerequisite: MATH 12003 and 21001 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52024 NUMBERS AND GAMES

The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory. Prerequisite: Special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52031 MATHEMATICAL MODELS AND DYNAMICAL SYSTEMS

Formulation and analysis of mathematical models for a variety of phenomena. Mathematical methods from optimization, dynamical systems and probability are developed and applied. Modern software tools are utilized. Prerequisite: MATH 32044 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52041 ADVANCED CALCULUS

The calculus and applications of scalar and vector functions of several variables. Vector differential and integral calculus.

Applications to field theories, electricity and magnetism, and fluid flow. Prerequisite: MATH 21001 and 22205.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52045 INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS

Introduction to Fourier series, Fourier transforms and partial differential equations. Wave, heat and potential equations of mathematical physics. Additional topics include Green's functions and the Method of Characteristics for wave equations. Prerequisite: MATH 32044 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52048 INTRODUCTION TO COMPLEX VARIABLES

Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications. Prerequisite: MATH 22005 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52091 SEMINAR: MODELING PROJECTS

Individual and small-group projects concerned with the formulation and analysis of mathematical models in a variety of areas. Written and oral reports required. Prerequisite: MATH 52031 and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 52201 INTRODUCTION TO NUMERICAL COMPUTING I

An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-square data fitting, nonlinear equations and systems and optimization problems. Prerequisite: MATH 12003, 21001 and CS 23021. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 52202 INTRODUCTION TO NUMERICAL COMPUTING II

A continuation of MATH 52201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations. Prerequisite: MATH 32044 and 52201. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 55011 DIFFERENTIAL GEOMETRY

Analytic and metric differential geometry of curves and surfaces. Prerequisite: MATH 22005 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 55021 EUCLIDEAN GEOMETRY

Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles: cross ratio, groups, constructions, geometric generalizations; inversion. Prerequisite: MATH 21001. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 55022 LINEAR GEOMETRY

Use of transformations as a tool to study geometry and to differentiate between

different kinds of geometry. Linear algebra methods applied to geometry. Prerequisite: MATH 21001 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 56001 ELEMENTARY TOPOLOGY

Metric spaces, introduction to topological spaces, separation axioms. Prerequisite: MATH 22005 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 57001 MATHEMATICAL LOGIC AND SET THEORY

Axiomatic set theory, relations development of real numbers cardinal number axiom of choice. Prerequisite: Permission and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 57011 THEORY OF NUMBERS

Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations. Prerequisite: MATH 12003. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 57021 HISTORY OF MATHEMATICS

Survey from Babylonian and Egyptian mathematics to 20th-century mathematics with emphasis on the development of algebra, geometry, calculus, number theory. Prerequisite: 3 credit hours of mathematics beyond MATH 22005 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 57091 SELECTED TOPICS IN MATHEMATICS AND ITS APPLICATIONS

Various special courses will be announced in the schedule of classes under this course number with different section numbers. Repeated registration permitted.

Prerequisite: Special approval of instructor and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics


MATH 59893 VARIABLE TITLE WORKSHOP IN MATHEMATICS

Studies in special topics in pure and applied mathematics. Prerequisite: Special approval and graduate standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Mathematics

MATH 60051 PROBABILITY I

Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers. Prerequisite: MATH 4/50011 or 4/52002. Graduate standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 60052 PROBABILITY II

Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion. Prerequisite: MATH 6/70051 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 60061 MATHEMATICAL STATISTICS I

Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems. Prerequisite: MATH 4/52002. Graduate standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 60062 MATHEMATICAL STATISTICS II

Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non-parametric procedures. Prerequisite: MATH 6/70061. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 60070 FINANCIAL MATHEMATICS

Topics from replication of trading strategies, arbitrage, completeness, Martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing. Prerequisite: MATH 50051 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Mathematics

MATH 60091 SEMINAR IN STATISTICS & PROBABILITY

Seminar on current research in statistics and probability. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Mathematics

MATH 60093 VARIABLE TITLE WORKSHOP IN MATHEMATICS

Studies of special topics in mathematics. Not acceptable for credit toward a graduate degree in mathematics without approval of the student's adviser. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Mathematics

MATH 60094 COLLEGE TEACHING OF MATHEMATICS

Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included. Prerequisite: Graduate standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 61051 ABSTRACT ALGEBRA I

Advanced topics in group theory including Sylow Theorems, finite Abelian groups, divisible groups and related concepts. Includes one hour problem session each week. Prerequisite: Special approval and graduate standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 61052 ABSTRACT ALGEBRA II

Advanced topics, commutative ring theory, and field theory including polynomial rings, unique factorization domains, matrix rings, Galois theory. Prerequisite: MATH 6/71051 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 61091 SEMINAR IN ALGEBRA

Seminar on current research in algebra. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate

Schedule Types: Seminar
Department: Mathematics

MATH 62041 METHODS OF APPLIED MATHEMATICS I

Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations). Prerequisite: MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 62042 METHODS OF APPLIED MATHEMATICS II

Continuation of MATH 6/72041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation). Prerequisite: MATH 6/72041 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 62051 FUNCTIONS OF A REAL VARIABLE I

Introduction to modern concepts of real analysis including metric spaces, measure and integration theory. Prerequisite: MATH 4/52002 and graduate standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 62052 FUNCTIONS OF A REAL VARIABLE II

A continuation of MATH 62051/72051. Included are basic topics in functional analysis and Hilbert space theory. Prerequisite: MATH 6/72051 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 62091 SEMINAR IN REAL ANALYSIS

Seminar on current research in real analysis. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Mathematics

**MATH 62151 FUNCTIONS OF A COMPLEX VARIABLE I**

Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces. Prerequisite: MATH 52002 and graduate standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62152 FUNCTIONS OF A COMPLEX VARIABLE II

Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces. Prerequisite: MATH 62151 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62191 SEMINAR IN COMPLEX ANALYSIS

Seminar on current research in complex analysis. Repeated registration permitted. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 62201 NUMERICAL COMPUTING I

Numerical methods for scientific computing emphasizing modern mathematical software and environments. Computer arithmetic and errors, linear systems of equations, least squares data fitting, eigenvalues and singular values, nonlinear systems optimization. Computer programming experience (C or C++ or Fortran) required. Prerequisite: MATH 21001 and MATH 22005 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62202 NUMERICAL COMPUTING II

A continuation of MATH 6/72201. Interpolation, numerical integration and differentiation, ordinary differential equations, initial and boundary value problems, partial differential equations, fast Fourier transforms and applications. Prerequisite: MATH 52045 and 6/72201 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62203 COMPUTATIONAL FINANCE

Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods), numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.

Prerequisite: MATH 22005 and MATH 21001 and MATH 32044 and CS 10061 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62251 NUMERICAL ANALYSIS I

Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration. Prerequisite: MATH 4/52002 and graduate standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62252 NUMERICAL ANALYSIS II

Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition. Prerequisite: MATH 4/51021 and 6/72251 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS

Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementation software and analysis. Prerequisite: MATH 32044 and MATH 4/52202 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS

Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations. Prerequisites: MATH 42045 or 52045; and MATH 42202 or 52202; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS

Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods. Prerequisite: MATH 4/51021 and MATH 4/52202 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS

Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software. Prerequisite: MATH 4/52041 and MATH 4/52202 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 62291 SEMINAR IN NUMERICAL ANALYSIS

Seminar on current research in numerical analysis. Repeated registration permitted. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 62391 SEMINAR IN MEASURE THEORY

Seminar on current research in measure theory. Repeated registration permitted. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 62491 SEMINAR IN NONLINEAR ANALYSIS

Seminar on current research in nonlinear analysis. Repeated registration permitted. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 62591 SEMINAR IN OPERATOR THEORY

Seminar on current research in operator theory. Repeated registration permitted. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate



Schedule Types: Seminar
Department: Mathematics

MATH 62691 SEMINAR IN HARMONIC ANALYSIS

Seminar on current research in harmonic analysis. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Mathematics

MATH 63291 SEMINAR IN APPLIED MATHEMATICS

Seminar on current research in applied mathematics. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Mathematics

MATH 64091 SEMINAR IN MATHEMATICS EDUCATION

Studies in geometry, algebra, mathematics for junior and senior high Department. Mathematics content professionalized for teachers. Repeated registration permitted. Prerequisite: MATH 34001 and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Mathematics

MATH 66051 INTRODUCTION TO TOPOLOGY I

Set theory, topological spaces, continuity, product spaces, quotient spaces, separation axioms, compactness and metrizability. Prerequisite: Special approval and graduate standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 66052 INTRODUCTION TO TOPOLOGY II

Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds. Prerequisite: MATH 6/76051 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 66091 SEMINAR IN TOPOLOGY

Seminar on current research in topology. Repeated registration permitted. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate

Schedule Types: Seminar
Department: Mathematics

MATH 67091 SEMINAR IN NUMBER THEORY

Seminar on current research in number theory. Repeated Registration permitted. Prerequisite: Graduate standing and special approval.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Mathematics

MATH 67098 RESEARCH

Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Mathematics

MATH 67199 THESIS I

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Mathematics

MATH 67299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: MATH 67199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Mathematics

MATH 70051 PROBABILITY I

Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers. Prerequisite: MATH 4/50011 or 4/52002; and doctoral standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 70052 PROBABILITY II

Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion. Prerequisite: MATH 6/70051 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 70061 MATHEMATICAL STATISTICS I

Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems. Prerequisite: MATH 4/52002.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 70062 MATHEMATICAL STATISTICS II

Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Non parametric procedures. Prerequisite: MATH 6/70061 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 70070 FINANCIAL MATHEMATICS

Topics from replication of trading strategies, arbitrage completeness, Martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing. Prerequisite: MATH 50051 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 70091 SEMINAR IN STATISTICS & PROBABILITY

Seminar on current research in statistics and probability. Repeated registration permitted. Prerequisite: Special approval and doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Mathematics

MATH 70094 COLLEGE TEACHING OF MATHEMATICS

Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included. Prerequisite: Doctoral standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 70095 SELECTED TOPICS IN STATISTICS AND PROBABILITY

Contents will vary with each offering and will complement topics covered in MATH 6/70051, 6/70052 and MATH 6/70061, 6/70062. Repeated registration permitted. Prerequisite: Doctoral standing and special approval.



1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 71001 STRUCTURE OF RINGS AND ALGEBRAS I

Advanced topics in ring theory, including Artinian rings, Noetherian rings, advanced commutative ring theory. Prerequisite: Special approval and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 71002 STRUCTURE OF RINGS AND ALGEBRAS II

Advanced topics in ring theory including an introduction to homological algebra. Includes Dedekind domains, regular rings, torsion theory. Prerequisite: MATH 71001 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 71011 ADVANCED GROUP THEORY

Advanced topics in group theory. Topics include permutation arguments, coprime actions, transfer theorems, non-simplicity criteria. Properties of families of groups: solvable, p solvable, nilpotent, p groups. Prerequisite: MATH 6/71051 and MATH 6/71052 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 71012 CHARACTERS OF FINITE GROUPS

Development of characters of finite groups, their properties, orthogonality relations, integrality conditions. Applications include Burnside's PAQB theorem and existence of Frobenius kernels in Frobenius groups. Prerequisite: MATH 6/71051 and MATH 6/71052 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 71051 ABSTRACT ALGEBRA I

Advanced topics in group theory including Sylow theorems, finite Abelian groups, divisible groups and related concepts. Includes one-hour problem session each week. Prerequisite: Special approval and doctoral standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 71052 ABSTRACT ALGEBRA II

Advanced topics, commutative ring theory, and field theory including polynomial rings, unique factorization, domains, matrix rings, Galois theory. Prerequisite: MATH 6/71051 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 71091 SEMINAR IN ALGEBRA

Seminar on current research in algebra. Repeated registration permitted. Prerequisite: Permission and doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Mathematics

MATH 71095 SELECTED TOPICS IN ALGEBRA

Contents will vary with each offering and will complement topics covered in MATH 6/71051, 6/71052, 71001 and 71002. Repeated registration is permitted. Prerequisite: Permission and doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 72001 FUNCTIONAL ANALYSIS I

A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces. Prerequisite: MATH 72052 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 72002 FUNCTIONAL ANALYSIS II

A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces. Prerequisite: MATH 72001 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 72011 ADVANCED DIFFERENTIAL EQUATIONS

Advanced topics in ordinary differential equations in real and complex plane. Prerequisite: MATH 6/72051 and MATH 6/72151 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 72021 SUMMABILITY THEORY

Generalizations of concept of convergent sequence; properties of classical

summability methods and of related sequence spaces. Prerequisite: Special approval of instructor and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 72041 METHODS OF APPLIED MATHEMATICS I

Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations). Prerequisite: MATH 51021 and MATH 52041 and MATH 52045 and MATH 52048 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 72042 METHODS OF APPLIED MATHEMATICS II

Continuation of MATH 6/72041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation). Prerequisite: MATH 6/72041 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 72051 FUNCTIONS OF A REAL VARIABLE I

Introduction to modern concepts of real analysis including metric spaces, measure and integration theory. Prerequisite: MATH 4/52002 and doctoral standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 72052 FUNCTIONS OF A REAL VARIABLE II

A continuation of MATH 62051/72051. Included are basic topics in functional analysis and Hilbert space theory. Prerequisite: MATH 6/72051 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Mathematics

MATH 72091 SEMINAR IN REAL ANALYSIS

Seminar on current research in real analysis. Repeated registration permitted.



Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 72095 SELECTED TOPICS IN REAL ANALYSIS

Contents will vary with each offering and will implement topics covered in MATH 6/72051, 6/72052 and 6/72002. Repeated registration permitted. Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72151 FUNCTIONS OF A COMPLEX VARIABLE I, II

Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces. Prerequisite: MATH 52002 and doctoral standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72152 FUNCTIONS OF A COMPLEX VARIABLE I, II

Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's theorem; Riemann surfaces. Prerequisite: 72151 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72191 SEMINAR IN COMPLEX ANALYSIS

Seminar on current research in complex analysis. Repeated registration permitted. Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 72195 SELECTED TOPICS IN COMPLEX ANALYSIS

Contents will vary with each offering and will complement topics covered in MATH 6/72151, 6/72152 and 72021. Repeated registration permitted. Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72201 APPROXIMATION THEORY

Introduction to polynomial, trigonometric and spline approximations, direct and inverse theorems of constructive function theory; other topics chosen according to interest of students and instructors.

Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72202 NUMERICAL COMPUTING II

A continuation of MATH 6/72201.

Interpolation, numerical integration and differentiation, ordinary differential equations, initial and boundary value problems, partial differential equations, fast Fourier transforms and applications.

Prerequisite: MATH 52045 and MATH 6/72201 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72203 COMPUTATIONAL FINANCE

Basic numerical methods, (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods) numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs) probabilistic methods.

Prerequisite: MATH 22005 and MATH 21001 and MATH 32044 and CS 10061 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72251 NUMERICAL ANALYSIS I

Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric spline).

Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration. Prerequisite: MATH 4/52002 and doctoral standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72252 NUMERICAL ANALYSIS II

Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods.

Algebraic eigenvalue problems, QR algorithm, singular value decomposition.

Prerequisite: MATH 4/51021 and MATH 6/72251 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72261 NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS

Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems.

Numerical implementation software and analysis. Prerequisite: MATH 32044 and MATH 4/52202 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72262 NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS

Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations.

Prerequisites: MATH 42045 or 52045; and MATH 42202 or 52202; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72263 NUMERICAL SOLUTION OF LARGE SPARSE LINEAR SYSTEMS

Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multi-grid methods. Prerequisite: MATH 4/51021 and MATH 4/52202 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72264 NUMERICAL SOLUTION OF NONLINEAR SYSTEMS

Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems.

Numerical implementation and software. Prerequisites: MATH 4/52041 and MATH 4/52202 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72291 SEMINAR IN NUMERICAL ANALYSIS

Seminar on current research in numerical analysis. Repeated registration permitted. Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 72295 SELECTED TOPICS IN NUMERICAL ANALYSIS

Contents will vary with each offering and will complement topics covered in MATH



6/72251-6/72252 and MATH 72201.

Repeated registration permitted.

Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 72391 SEMINAR IN MEASURE THEORY

Seminar on current research in measure theory. Repeated registration permitted.

Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 72491 SEMINAR IN NONLINEAR ANALYSIS

Seminar on current research in nonlinear analysis. Repeated registration permitted.

Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 72591 SEMINAR IN OPERATOR THEORY

Seminar on current research in operator theory. Repeated registration permitted.

Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 72691 SEMINAR IN HARMONIC ANALYSIS

Seminar on current research in harmonic analysis. Repeated registration permitted.

Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 73291 SEMINAR IN APPLIED MATHEMATICS

Seminar on current research in applied mathematics. Repeated registration permitted. Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 76001 ALGEBRAIC TOPOLOGY I, II

Singular and simplicial homology and cohomology theory. Homotopy theory.

Prerequisite: Doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 76002 ALGEBRAIC TOPOLOGY I, II

Singular and simplicial homology and cohomology theory. Homotopy theory.

Prerequisite: MATH 76001 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 76051 INTRODUCTION TO TOPOLOGY I

Set theory, topological spaces, continuity, product spaces, quotient spaces separation axioms, compactness and metrizability.

Prerequisite: Special approval and doctoral standing.

4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 76052 INTRODUCTION TO TOPOLOGY II

Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds. Prerequisite: MATH 6/76051 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 76091 SEMINAR IN TOPOLOGY

Seminar on current research in topology. Repeated registration permitted.

Prerequisite: Permission and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 76095 SELECTED TOPICS IN TOPOLOGY

Contents will vary with each offering and will complement topics covered in MATH 6/76051, 6/76052, 76001 and 76002.

Repeated registration permitted.

Prerequisite: Permission and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 77011 ALGEBRAIC NUMBER THEORY

Number fields and Dedekind domains; conjugates, norm and trace, discriminant,

integral bases; arithmetic or quadratic and cyclotomic number fields; theory of ideals and class group; Dirichlet's theorem on units. Prerequisite: MATH 57011 and MATH 6/71052 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 77012 ANALYTIC NUMBER THEORY

Multiplicative functions and summatory functions, Riemann's Zeta function and the prime number theorem, L-functions and Dirichlet's theorem on primes in arithmetic progressions, asymptotic formula for partitions. Prerequisite: MATH 57011 and MATH 6/72151.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 77091 SEMINAR IN NUMBER THEORY

Seminar on current research in number theory. Repeat registration permitted.

Prerequisite: Doctoral standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Mathematics

MATH 77095 SELECTED TOPICS IN MATHEMATICS

Contents will vary with each offering.

Repeated registration permitted.

Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

MATH 77098 RESEARCH

Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given.

Repeated registration permitted.

Prerequisite: Doctoral standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Mathematics

MATH 77195 SELECTED TOPICS IN NUMBER THEORY

Content varies with each offering and complements topics covered in MATH 77011 and MATH 77012. Repeat registration permitted. Prerequisite: Doctoral standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Mathematics

**MATH 87098 RESEARCH**

Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Credits earned may be applied toward degree if department approves. Repeated registration permitted. Prerequisite: Doctoral standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Mathematics

MATH 87199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Admission to doctoral candidacy and doctoral standing.

15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Mathematics

MATH 87299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: MATH 87199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Mathematics

Middle Childhood Education (MCED)

MCED 30000 CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD

History, philosophy, curricula and organization of Departments serving early adolescents ages 8-14. Emphasis on development of programs and curricula that are culturally and developmentally responsive to the needs of early adolescents. Prerequisite: HDF5 24013.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 30001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD I

Examine issues and trends in mathematics and mathematics education. Theories of the teaching and learning of mathematics will be addressed within the context of problem solving, communications, reasoning and connections with other disciplines. Prerequisite: EDPF 29525; and MATH

14001 and MATH 14002; and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 30002 INTEGRATED SOCIAL STUDIES AND SCIENCE IN MIDDLE CHILDHOOD

Introductory methods course integrating social studies and science. Emphasis on principles of teaching and learning as applied to teaching to social issues and problems appropriate for middle childhood students. Prerequisite: Admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 30092 FIELD EXPERIENCE II: MIDDLE CHILDHOOD

Department-based field experiences supplement the coursework in curriculum and organization in middle childhood. Emphasis on collaborative and interdisciplinary nature of teachers' work in middle childhood settings. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Corequisite: MCED 30000.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Teaching, Learning and Curriculum Studies

MCED 31000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD

Theories of learning and classroom management and their application to teaching in grades 4-9 classrooms with diverse learners. 15 credit hours of field experience in grades 4-5. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Admission to advanced study and middle childhood education (MCED) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 40000 TEACHING AND LEARNING IN MIDDLE CHILDHOOD

This course is the third of the four required seminars in middle childhood. Emphasis on theories of learning and classroom

management and their application to teaching in classrooms with diverse learners. Prerequisite: HDF5 24013 and admission to advanced study.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 40001 TEACHING MATHEMATICS IN MIDDLE CHILDHOOD II

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-9 and develop skill in their use. Prerequisite: MCED 30001 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 40002 TEACHING SCIENCE IN THE MIDDLE CHILDHOOD II

Individual and group work develop effective techniques of teaching science concepts to 8-14 year olds. Attention given to methods equipment safety and planning. This course includes 40 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: MCED 30002 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 40003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II

Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: MCED 30002 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**MCED 40005 EFFECTIVE USE OF PHONICS IN READING**

The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing strategies for effective phonics instruction and assessment. Prerequisite: Advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 40006 READING AND WRITING IN MIDDLE CHILDHOOD

Understanding of literacy learning in the middle childhood (ages 8-14) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers. Prerequisite: Advanced study.

6.000 Credit hours

6.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

Course Attributes: Writing Intensive Course

MCED 40007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD

The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program. Prerequisite: MCED 40006 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 40045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use. Prerequisite: ECED 40147 with a minimum grade of C.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 40092 FIELD EXPERIENCE III: MIDDLE CHILDHOOD

Students will be placed in their student teaching site(s). Field experiences will focus on individual small group and large group instruction in inclusive classrooms. Corequisite: MCED 40000.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience
Department: Teaching, Learning and Curriculum Studies

MCED 41000 CURRICULUM AND ORGANIZATION IN MIDDLE CHILDHOOD

History, philosophy, curricula and organization of Departments serving early adolescents in grades 4-9. Emphasis on development of programs and curricula and early adolescent development. 15 credit hours of field experience in grades 6-9. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Admission to advanced study and middle childhood education (MCED) major and MCED 31000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 42357 STUDENT TEACHING MIDDLE CHILDHOOD/GIFTED EDUCATION

All day student teaching experience in the middle grade Departments for eight weeks. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: MCED 41000 and 40007 and admission to advanced study.

5.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Teaching, Learning and Curriculum Studies

MCED 42358 STUDENT TEACHING IN MIDDLE CHILDHOOD

Full-time student teaching for twelve weeks in two selected concentrations (mathematics, science, language arts, social studies) and reading in grades 4-5 or grades 6-7-8. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

Prerequisite: MCED 41000 and MCED 40007 and admission to advanced study.

9.000 Credit hours

9.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Teaching, Learning and Curriculum Studies

MCED 46645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4

Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies. Prerequisite: special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 47745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5

Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies. Prerequisite: special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 49525 INQUIRY INTO PROFESSIONAL PRACTICE: MIDDLE CHILDHOOD

A seminar linked to student teaching with an emphasis on action research as professional development; completion of professional portfolios; professional ethics; and legal, medical and ethical issues in teaching. Prerequisite: MCED 41000 and MCED 40007. Corequisite: MCED 42358.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

MCED 50002 TEACHING SCIENCE IN MIDDLE CHILDHOOD II

Individual and group work develop effective techniques of teaching science concepts to 8-14 year olds. Attention given to methods, equipment safety and planning. This course includes 40 field/clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: MCED 30002 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies


MCED 50003 TEACHING SOCIAL STUDIES IN MIDDLE CHILDHOOD II

Advanced methods course. Examines the purpose of citizenship education and understanding the role of history and the social sciences. Applying the principles of powerful teaching. Includes a major field experience at the student teaching site. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: MCED 30002 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

MCED 50005 EFFECTIVE USE OF PHONICS IN READING

The influence of theoretical perspectives on word identification instruction, an examination of the role of phonics in reading and writing, strategies for effective phonics instruction and assessment. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

MCED 50006 READING AND WRITING IN MIDDLE CHILDHOOD

Understanding of literacy learning in the middle childhood (classrooms grades 4-9) with emphasis on the development of reading and writing processes, strategies for text learning, literacy in electronic environments, authentic assessment and teaching children who struggle as readers. Prerequisite: Graduate standing.

6.000 Credit hours

6.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

MCED 50007 TEACHING READING WITH LITERATURE IN MIDDLE CHILDHOOD

The study of the teaching of reading with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program. Prerequisite: MCED 50006 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

MCED 50045 TEACHING MATHEMATICS IN THE INTERMEDIATE YEARS, GRADES 4-5

To develop knowledge of the theories, materials and methods used to teach mathematics in the contemporary classroom for grades 4-5 and develop skill in their use. Prerequisites: ECED 40147 with a minimum grade of C; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

MCED 52358 STUDENT TEACHING IN MIDDLE CHILDHOOD

Full-time student teaching for twelve weeks on an interdisciplinary team in two selected concentrations (mathematics, language arts, social studies, science) and reading in grades 4-9. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Special approval of program coordinator and graduate standing.

9.000 Credit hours

9.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Teaching, Learning and

Curriculum Studies

MCED 56645 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 4

Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies. Prerequisite: special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

MCED 57745 CRITICAL INQUIRY AND INTEGRATION: SCIENCE AND SOCIAL STUDIES, GRADE 5

Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using an interdisciplinary, inquiry approach to teaching and learning in science and social studies. Prerequisite: graduate standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

MCED 59525 INQUIRY INTO PROFESSIONAL PRACTICE MIDDLE CHILDHOOD

A seminar linked to student teaching with an emphasis on action research as professional development, completion of professional portfolios, professional ethics and legal, medical and ethical issues in teaching. Prerequisite: Minimum grade of C (2.0) in CI 67107 and in MCED 50007 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

MCED 60092 ADVANCED PRACTICUM IN MIDDLE CHILDHOOD

Teaching and observing in grades 4-9.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Teaching, Learning and

Curriculum Studies

MCED 70092 ADVANCED PRACTICUM IN MIDDLE CHILDHOOD

Teaching and observing in grades 4-9.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing.

2.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Teaching, Learning and

Curriculum Studies

Modern and Classical Languages (MCLS)

MCLS 10001 INTRODUCTION TO STRUCTURAL CONCEPTS FOR LANGUAGE STUDENTS

Entry-level analysis of concepts of structure and form employed in language instruction. Designed for students who anticipate difficulty in basic language courses. Taught in English. Should be taken with a beginning language course. Prerequisite: None.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture



Department: Modern and Classical
Language Studies

**MCLS 10095 SPECIAL TOPICS IN
ELEMENTARY FOREIGN LANGUAGE
STUDY**

(Repeatable for credit) Study of a foreign language at the elementary level (Elementary I or II) or intermediate level (Intermediate I or II) as determined appropriate by the department. No proficiency needed for work at the Elementary I level; proficiency equivalent of Elementary I for work at the Elementary II level, at Elementary II for the Intermediate I level, and at Intermediate I for the Intermediate II level. Prerequisite: special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

**MCLS 20000 GLOBAL LITERACY AND
CULTURAL AWARENESS**

Introduction to dimensions of cultural identity and parameters of cultural expression, with a focus on fostering cultural awareness skills. By exploring the ways in which culture shapes us, students gain a better understanding of the dynamics shaping their world, the world of others, and their respective places in it. Discussion of real-world critical incidents, authentic cultural ethnographies, and case studies provide students with concrete examples and contexts to solve problems linked to encounters with persons of different linguistic and cultural backgrounds.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

**MCLS 21417 MULTICULTURALISM IN
TODAY'S GERMANY**

This course examines how issues of diversity have shaped German culture and traces the country's transformation into a post national, multicultural society. Taught in English; knowledge of German not necessary. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

Course Attributes: Diversity Course-Global

**MCLS 22217 DIVERSITY IN TODAY'S
RUSSIA**

This course examines how issues of diversity have shaped Russian culture and traces Russia's attempts at transition to a post national, multicultural society. Taught in English; knowledge of Russian not necessary. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Course Attributes: Diversity Course-Global

**MCLS 23217 THE FRANCOPHONE
EXPERIENCE**

An introduction to various aspects of contemporary society and culture in countries where French is spoken. Taught in English; knowledge of French not necessary. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Course Attributes: Diversity Course-Global

**MCLS 28403 HISPANICS IN THE UNITED
STATES**

An introduction to various aspects of Hispanic culture in the U.S. that examines how issues of diversity have shaped today's multicultural United States. Taught in English; knowledge of Spanish not necessary. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

**MCLS 28404 THE LATIN AMERICAN
EXPERIENCE**

An introduction to various aspects of contemporary Latin American societies and cultures. Taught in English; knowledge of a foreign language is not necessary.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Course Attributes: Diversity Course-Global

**MCLS 28405 THE SPANISH
EXPERIENCE**

An introduction to aspects of contemporary Spanish culture that examines how issues of diversity have shaped today's multicultural, multilingual society. Taught in English; knowledge of Spanish not necessary. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Course Attributes: Diversity Course-Global

MCLS 30376 NOVELS OF PIERRE LOTI

A study of the gay novels of Pierre Loti, including the emergence of the idea of "the homosexual man" in modern Western thought and the ways in which this development is reflected in the course of

Loti's writing. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Course Attributes: Diversity Course-Global

**MCLS 30660 ORIENTATION TO SECOND
LANGUAGE PEDAGOGY**

Theories of human development and learning, second language acquisition research and second language methodology form the basis for classroom practices. Peer-teaching and 30 hours of field experience required. Prerequisite: Special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

**MCLS 37143 THE AFRICAN-BRAZILIAN
EXPERIENCE IN CULTURE AND
LITERATURE**

Interdisciplinary approach to the study of the African-Brazilian experience, from the colonial period to the present, as reflected in selected literary, sociocultural and historical texts. Course taught in English. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Course Attributes: Diversity Course-Global

**MCLS 39597 INTRADEPARTMENTAL
COLLOQUIUM**

Permits students to explore areas of special interest not usually covered in standard departmental courses, e.g. movies and literature, women in literature. Prerequisite: None.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Modern and Classical

Language Studies

**MCLS 40093 VARIABLE TITLE
WORKSHOP IN MODERN AND
CLASSICAL LANGUAGE STUDIES**

Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies. Prerequisite: Departmental special approval.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Modern and Classical

Language Studies

**MCLS 40095 SELECTED TOPICS**

Topic to be announced in the schedule of classes. Repeated registration permitted when content varies. Prerequisite: Senior standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 40420 FOREIGN LANGUAGES AND CULTURE STUDIES

Students of international business, foreign languages and translation will explore the complex relationship between a foreign language and the cultural system of which it is a part. Course focuses on German, French and Spanish cultures. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 40525 INQUIRY INTO PROFESSIONAL PRACTICE

Foreign language teaching as a profession and the teacher as disciplined investigator.

The final seminar of four it is conducted during the student teaching semester with emphasis on collaborative and individual classroom problem solving. Prerequisite: Special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 40654 COMPUTERS IN SECOND LANGUAGE TEACHING

Designed for future teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with second language skills. Prerequisite: MCLS 30660.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 40657 STUDENT TEACHING OF A SECOND LANGUAGE

Supervised practicum in the teaching of a second language, grades K-12. Prerequisite: Special approval.

3.000 TO 9.000 Credit hours

9.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Modern and Classical

Language Studies

MCLS 40660 METHODS OF TEACHING FOREIGN LANGUAGE

Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer-teaching and 30 hours of field experience required. Prerequisite: MCLS 30660 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 50093 VARIABLE TITLE WORKSHOP IN MODERN AND CLASSICAL LANGUAGE STUDIES

Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies. Prerequisite: Special approval and graduate standing.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Modern and Classical

Language Studies

MCLS 50095 SELECTED TOPICS

Topic to be announced in the schedule of classes. Repeated registration permitted when content varies. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 50654 COMPUTERS IN SECOND LANGUAGE TEACHING

Designed for teachers of language and culture, this course explores the availability of technology, its implementation in the classroom and its integration with foreign language skills. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 50655 MULTIMEDIA, ONLINE INSTRUCTION AND SECOND LANGUAGE ACQUISITION

Theoretical bases and application of methods and techniques of second language instruction in an online environment. Design and development of multimedia materials and lessons in a project-based learning environment. Prerequisite: Graduate standing and MCLS 50654.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

MCLS 50660 METHODS OF TEACHING FOREIGN LANGUAGES

Theoretical bases, approaches, methods, materials and techniques of foreign language instruction at the elementary and secondary levels. Peer teaching 30 hours of field experience and curriculum guide required. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 60000 LITERARY THEORY IN MODERN AND CLASSICAL LANGUAGES

An introduction to literary theory for students of French, German, Latin and Spanish. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 60020 SEMEIOTICS

An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 60094 COLLEGE TEACHING OF FOREIGN LANGUAGES

An introduction to current principles and issues in the teaching of foreign languages at the college elementary and intermediate levels. Required of departmental teaching assistants. Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

MCLS 60601 LINGUISTICS FOR THE LANGUAGE PROFESSIONS

Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

**MCLS 60621 THE PRAGMATICS OF CONVERSATION**

Theories of pragmatics, conversational structure and strategies with practical applications for teaching conversation strategies to foreign/second language learners. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

MCLS 60622 TEACHING LITERATURE AND CULTURE

Students will explore theories of literature and culture teaching as well as strategies for teaching literature and culture. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

MCLS 60623 SOCIOCULTURAL THEORY AND FOREIGN AND SECOND LANGUAGE ACQUISITION

The foundations of sociocultural theory and its applications to the second and foreign language classroom. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

MCLS 60624 HERITAGE LANGUAGE SPEAKERS IN THE FOREIGN LANGUAGE CLASSROOM

Provides an understanding of the unique needs of heritage language speakers in the foreign language classroom and explores theoretical approaches and practical applications toward development of their literacy skills. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

MCLS 60661 SECOND LANGUAGE ACQUISITION

This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second language teaching approaches. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

MCLS 60663 SECOND LANGUAGE CURRICULUM AND TESTING

Students will study second language curriculum and testing design and current issues, including oral proficiency testing. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

MCLS 60698 RESEARCH IN SECOND LANGUAGE PEDAGOGY

Students will learn how second language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project. Prerequisite: Special approval of instructor and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Modern and Classical Language Studies

Mechanical Engineering and Related Technologies (MERT)

MERT 12000 ENGINEERING DRAWING

Engineering drawing principles and techniques: orthographic projection, sketching, sections, auxiliary views, dimensioning and conventional practices. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

MERT 12001 COMPUTER-AIDED DRAFTING

Builds on skills learned in MERT 12000 Engineering Drawing. Teaches students how to construct multi-view drawings and how to create sets of mechanical component drawings, including assembly and detail sheets. Prerequisite: MERT 12000.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

MERT 12004 MANUFACTURING PROCESSES

Introduces students to the various manufacturing processes such as extrusion, molding, forging, casting, stamping, piercing, joining and finishing. Investigates the various ways parts are made from the vast array of materials available. Prerequisite: none.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours

Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

MERT 12005 PROPERTIES OF MATERIALS

Covers the chemical and physical properties of engineering materials such as metals (ferrous and non-ferrous), polymers, ceramics and composites. Students learn the mechanical and physical properties of materials, and the effects that manufacturing processes have on the material's properties. Prerequisite: none.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

MERT 21096 INDIVIDUAL INVESTIGATION IN MECHANICAL ENGINEERING TECHNOLOGY

Independent, in depth research of a mechanical engineering technology topic supervised and coordinated by an engineering technology faculty member. Prerequisite: Permission.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

MERT 22003 COMPUTER-AIDED TOOL DESIGN

Tool design practices and procedures including materials, commercial standards, cutting tools, drill jigs, fixtures, dies and gauges using computer-aided design. Prerequisite: MERT 12001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

MERT 22004 MECHANICS AND MACHINE DESIGN

Machine design procedures including static and dynamic stresses, stress concentrations, design considerations. Design of keys, pins, fasteners, welds, power transmission devices and related components. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

MERT 22005 STATICS

Basic vector mechanics, calculation of reactions from applied forces, drawing free body diagrams, working with equations of equilibrium, analysis of simple structures, calculating mass properties and forces due to friction. Prerequisite: MATH 19001. Corequisite: MATH 19002.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture



Department: Regional College

MERT 22006 GENERAL MECHANICAL LABORATORY

Laboratory testing to determine material properties: tension, compression, shear, torsion, impact and hardness. Materials testing methods including engineering instrumentation. Prerequisite: Sophomore standing.

3.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Regional College

MERT 22007 STRENGTH OF MATERIALS

Covers taking the stresses induced into members due to applied loading, and coupled with mass properties of the sections, designing members to safely carry the loads. Types of stresses considered are tensile, compressive, shear, bending, torsional and combined. Prerequisite: MERT 22005.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MERT 22009 ROBOTICS AND FLEXIBLE AUTOMATION

A practical, hands-on experience which emphasizes the integration of analytical and design skills acquired in companion courses. Students will work in teams under direct faculty supervision. Engineering communication such as reports and oral presentations are covered. The capstone design projects include creative and challenging projects within the engineering discipline. Prerequisite: EERT 22014.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MERT 22011 DYNAMICS

Motion of particles and rigid bodies; kinematics, kinetics, Newton's laws; work, energy, power and the impulse-momentum principle. Prerequisite: Sophomore standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MERT 22012 FLUID POWER

Fluid properties, kinematics of fluid flow, momentum, viscosity, conservation of energy in fluid flow, industrial hydraulics and gas laws. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MERT 22020 APPLIED VECTOR ANALYSIS

A course in vector analysis, differential forms, matrices and applied tensor analysis as applied to engineering and technology problems. Prerequisite: MATH 19002.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MERT 22021 APPLIED FINITE ELEMENT ANALYSIS

Introduction to finite element analysis methods as applied to engineering and technology problems. Prerequisite: MATH 19002. Corequisite: MERT 22002.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MERT 22095 SPECIAL TOPICS IN MECHANICAL ENGINEERING TECHNOLOGY

Special topics in mechanical engineering technology. Repeated registration permitted. Prerequisite: Permission.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

Manufacturing Engineering Technology (MFTG)

MFTG 12010 SAFETY IN THE WORKPLACE

Topics include Ohio general industry safety requirements. Discussion will include all workshops and factories, metal casting, steel mills, and rubber and plastic industries. Prerequisite: None.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MFTG 13001 COMPUTER NUMERICAL CONTROL PROGRAMMING

Lathe and mill computer numerical control (CNC) programming: conversational, M & G codes. Manual data input and off-line programming: offsets, cutter compensation, linear, circular and helical interpolation. Prerequisites: MERT 12000 and MERT 12004.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MFTG 14001 GEOMETRIC DIMENSIONING AND TOLERANCING

Theory and application of geometric dimensioning and tolerancing (GD&T)

including interpretation of GD&T symbols on blueprints and inspection of parts with coordinate measuring machine.

Prerequisite: MERT 12000 and EERT 22003.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MFTG 21001 STANDARD DESIGN PRACTICE FOR MANUFACTURING TECHNOLOGY

Analysis of fundamental machine design components. Discussion will include keys, fasteners, pulleys, gears, chains, bearings, power transmission equipment and associated topics. Prerequisite: EERT 22002 and MERT 12001 and MERT 12005.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MFTG 22014 ADVANCED INDUSTRIAL ELECTRONICS

Advanced course in PLC program design and implementation. Emphasis on Boolean logic. Project definition and completion.

Prerequisite: EERT 22013.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MFTG 23001 COMPUTER-AIDED MANUFACTURING

Theory and application of computer-aided manufacturing. Generation of CNC code using CAM applications both from CAD drawings and directly from CAM package. Prerequisite: MFTG 13001 and MERT 12001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

MFTG 23002 ADVANCED COMPUTER-AIDED MANUFACTURING

An advanced class in computer-aided manufacturing. Electrical discharge machining (EDM) program applications. Emphasis will be placed on industrial projects. Prerequisite: MFTG 23001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

Management and Information Systems (MIS)

**MIS 24053 INTRODUCTION TO COMPUTER APPLICATIONS**

(Equivalent to COMT 11000) Develop competency in the operation of contemporary software and hardware applications. To develop an appreciation for the contribution of computers software and the Internet to society. Prerequisite: None. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems
Course Attributes: TAG Business

MIS 24056 FUNDAMENTALS OF BUSINESS STATISTICS

(Equivalent to BMRT 21004) Introduction to concepts in statistical methods and their applications to real world problems. Examines both the theoretical and practical side of the different methods. Prerequisite: MATH 11010 or MATH 11012 or MATH 12002. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems
Course Attributes: Transfer Module-Mathematics

MIS 24060 SYSTEMS ANALYSIS I

Coverage of the system life cycle, structured process modeling and data modeling methodologies, logical system design and automated analysis tools. Prerequisites: MIS 24053 and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 24065 WEB PROGRAMMING

Learn about how systems analysis is used to discover organizational needs and how to propose and design information system solutions. Learn about the principles of visual design as applied to Web site interface development. Learn the basics of programming and relational database. Learn how to develop a Web-based database driven interactive information system. Prerequisite: MIS 24053. 3.000 Credit hours
2.000 TO 3.000 Lecture hours
0.000 TO 1.000 Lab hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 24093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS

Special workshop in management and information systems. Credits depend on scope of project. Prerequisite: Permission. 1.000 TO 6.000 Credit hours

6.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Management and Information Systems

MIS 24163 PRINCIPLES OF MANAGEMENT

(Equivalent to BMRT 11009) Introductory course in management and organizational design. The leading contributions in the area are reviewed and practical implications are developed. Serves as an introduction to many upper level business courses. Prerequisite: sophomore standing or above. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34031 SYSTEMS SIMULATION

Concepts and methods of simulating systems to facilitate managerial decision making. Students design computerized simulation models using simulation language to analyze complex problems. Prerequisites: Cumulative 2.50 GPA; and MIS 24080; and MIS 24056 or MATH 10041 or BMRT 21004. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34032 DATA AND FILE TECHNOLOGY

An introduction to file architecture and data base management systems. The application of these technologies is detailed. Prerequisites: MIS 24060. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34033 COMPUTER PROGRAMMING FOR BUSINESS II

Continuation of Computer Programming for Business I. Emphasis on problem solving, developing systems, structured programming, programming style conventions and programming in teams. Prerequisites: minimum cumulative 2.50 GPA; and MIS 24060 and MIS 24065. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34036 LARGE SYSTEMS TECHNOLOGY

An introduction to the use of large computer systems; experience with job control language, utilities, teleprocessing monitors, exec. languages and job streams. Prerequisites: MIS 24060.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34045 SMALL SYSTEMS TECHNOLOGY

An examination of the role of small computer systems within an organization's information systems environment. Prerequisites: MIS 24060. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34053 DATA INTEGRATION

This course mixes concepts of data and information with hands-on applications with popular business software and the migration of the information to the Internet as well as Intranets. This course is only open to CIS minors. CIS majors will not receive credit. Prerequisite: MIS 24060; not open to computer information systems (CIS) majors. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34054 USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS

This course is a continuation of MIS 24053 and provides students with further study of use of information systems in solving business problems. Prerequisites: Cumulative 2.50 GPA; and MIS 24053 or COMT 11000. Course not open to computer information systems (CIS) majors. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34055 COMPUTER DECISION MODELING

Introduces students to the scientific decision-making tools of operations research and management science, and also to the use of spreadsheet modeling for problem formulation and solution without the need for mathematics. The concepts of modeling and better decision making are stressed along with illustrations from the various functional areas of business. Prerequisites: Cumulative 2.50 GPA; and MIS 24053 or COMT 11000; and MIS 24056 or MATH 10041 or BMRT 21004. Course not open to computer information systems (CIS) majors. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate



Schedule Types: Lecture
Department: Management and Information Systems

MIS 34058 OPERATIONS RESEARCH I

Matrix algebra, linear programming transportation problems and network flow problems. Theory and solution methods of each problem developed in conjunction with applications and foundations. Prerequisite: MATH 11010 or MATH 11012 or MATH 12002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34059 SERVICE OPERATIONS MANAGEMENT

Provide students with the concepts and tools necessary to effectively manage service operations and to prepare students for management opportunities in service firms that represent the fastest-growing sector of the economy. The service management will be presented from an integrated viewpoint with a focus on customer satisfaction. The course materials are organized around four modules (1) understanding services (2) designing the service enterprise, (3) managing service operations and (4) toward world class-service. Prerequisites: Cumulative 2.50 GPA and MIS 34060.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34060 OPERATIONS MANAGEMENT

A survey course in production and operations management that covers the managerial concepts and the quantitative tools used in the design, planning operation and control of production systems.

Prerequisites: Cumulative 2.50 GPA; and MIS 24053 or COMT 11000; and MIS 24056 or MATH 10041 or BMRT 21004.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34064 MANUFACTURING RESOURCE PLANNING

Introduce students to the basic tools operations managers use to inform their decisions on a daily basis. The course involves hands-on coverage of manufacturing resource planning tools, including forecasting and master production schedules, bill of materials structuring, order entry and purchasing, capacity requirements planning, routing, costing, customer service, shipping, invoicing and using an enterprise resource planning (ERP) software. Prerequisites: Cumulative 2.50 GPA; and MIS 34060.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34065 QUALITY ASSURANCE

Introduction to importance of quality assurance and tools used to accomplish better quality in goods and services. Topics TQM, Six Sigma, quality philosophies, sampling plans and statistical process control, ISO, quality competition and awards. Prerequisites: Cumulative 2.50 GPA; and MIS 34060.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34070 PRINCIPLES OF SYSTEMS DEVELOPMENT

Provides an overview of the information systems profession, a rigorous introduction to programming logic and language syntax and a framework for the IS curriculum. Prerequisite: MIS 24065.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34080 COMPUTER PROGRAMMING FOR BUSINESS I

Introduces a programming language currently used in business and industry for data processing, decision making and other information systems applications.

Prerequisite: MIS 34070.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34092 PRACTICUM IN CAREER DEVELOPMENT

In-depth training and development course designed to prepare students for resume presentation, job search, interviewing, participation in the internship and career launching. Prerequisites: minimum 2.50 cumulative GPA; and junior standing.

3.000 Credit hours
1.000 Lecture hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Lecture, Practicum
Department: Management and Information Systems

MIS 34161 MANAGERIAL AND TECHNOLOGICAL ASPECTS OF HEALTHCARE SYSTEMS MANAGEMENT

Introduce the main components of health care information technology, with emphasis on the components that distinguish the

health care delivery system from other business enterprises. Prepares students as clinical managers and consultants who must rely upon or manage information technology to accomplish their objectives. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34162 MANAGING HEALTHCARE SYSTEMS OPERATIONS

Operational process management, cost-control and productivity is critical to cost-effective healthcare. Covers topics in improving operations such as patient flow, quality (concepts and mechanics) and process improvement. Students become familiar with methods and resources for implementing change in a health care setting, such as a hospital or outpatient clinic. Provides skills to assess current hospital operations and to identify the appropriate tools to address various functional areas, useful for managers, consultants, clinical providers and others. Process improvement methods such as lean thinking, six sigma, statistical tools, flowcharting, queuing models and other tools are covered. Health care settings beyond the hospital, such as outpatient clinics, are included. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34163 INTRODUCTION TO HEALTHCARE SYSTEMS MANAGEMENT

Provides an overview of the management, economic and policy issues facing the healthcare, pharmaceutical, biotechnology and medical device industries. The course perspective is global, with emphasis on the U.S. as the largest and most profitable market. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 34165 DYNAMICS OF LEADERSHIP

Contemporary theories of management and leadership; practical application cases; personal assessment and opportunities to develop individual and group leadership. Prerequisites: Cumulative 2.50 GPA; and MIS 24163 or BMRT 11009.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

**MIS 34175 LEARNING TO LEAD**

Experiential class that meets for five days at a residential camp before the semester begins and includes a service-learning project and a self-development mentoring project during the semester. Prerequisite: special approval.

3.000 Credit hours

1.000 Lecture hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience, Lecture
Department: Management and Information Systems

MIS 34180 HUMAN RESOURCE MANAGEMENT

(Equivalent to BMRT 21006) Focuses on the competitive advantage derived from the better management of a firm's human resources. Issues related to managing people at work will be discussed from both practical and theoretical perspectives.

Prerequisites: Cumulative 2.50 GPA; and MIS 24163 or BMRT 11009.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 34185 INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS

Determinants of individual and group behavior within work organizations. Topics covered include, motivation, job design, learning, decision making, leadership and group behavior as they relate to performance and other outcomes in work organizations. Prerequisite: MIS 24163 or BMRT 11009.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 34280 SOCIAL RESPONSIBILITY IN THE WORKPLACE

Using a case-based approach to learning, this course provides information on what constitutes appropriate business behavior by examining the major business and non-business factors that influence business policies and practices. Prerequisites: Cumulative 2.50 GPA; and MIS 24163 or BMRT 11009.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44009 THE BUSINESS CASE FOR SUSTAINABILITY

Lays the foundation for sustainable development and the balance issues between economic, social and environmental interests. It frames the business enterprise within the natural and social environments, and surveys a variety

of intersection points and the challenges they pose. Systems thinking and long term perspective are used to understand the potential consequences of organizational choices regarding goals and strategies, given consideration of how the natural environment increasingly drives the business environment. Prerequisites: minimum cumulative 2.50 GPA; and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44042 NETWORK THEORY AND APPLICATIONS

Presentation of current and emerging telecommunications services and networking technologies with emphasis on their strengths, limitations and business applications. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44043 DATA BASE MANAGEMENT SYSTEMS

The design, implementation and management of data base management systems within organizations are studied from both theoretical and applied perspectives. Prerequisites: MIS 24060.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44044 SYSTEMS ANALYSIS II

Physical system implementation: mapping logical data models and process models to physical data bases and system design; system coding, testing, installation, conversion, training and automated tools.

Prerequisites: MIS 24060.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44045 INFORMATION SYSTEMS MANAGEMENT

Management of information systems (IS) resources and the IS function. Topics include IS planning for global, national and interorganizational commerce. IS architecture development and strategic alignment, information technology portfolio and risk management, project management, management of technical employees and management of technology customer issues. Prerequisites: MIS 24060; and one of the following CIS major requirement courses: MIS 44042 or 440443

or 44048; and computer information systems (CIS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44048 SOFTWARE INTEGRATION

The design and implementation of information systems. Traditional and alternative development strategies are investigated from a theoretical and applied perspective. Group project to implement information system with software packages. Prerequisites: Cumulative 2.50 GPA; and MIS 24060 and computer information systems (CIS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

Course Attributes: Writing Intensive Course

MIS 44049 NETWORK MANAGEMENT

Practical aspects of installing and managing PC networks within business organizations. Emphasis on commonly used network operating systems LAN and WAN technologies Internetworking and media. Prerequisites: Cumulative 2.50 GPA; and MIS 44042.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44056 STATISTICAL MODELS FOR BUSINESS APPLICATIONS

The application of linear statistical models such as regression analysis of variance, analysis of covariance and design of experiments for managerial decision problems. Prerequisite: cumulative 2.50 GPA.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44061 OPERATIONS MANAGEMENT AND CONTROL

Introduces the student to the key functions of an operations planning and control system. Operations planning and control systems provide information for the efficient flow of materials, the effective utilization of people and equipment and the proper coordination of internal activities with suppliers and customers. Prerequisites: Cumulative 2.50 GPA; and MIS 34061.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems



MIS 44062 SUPPLY CHAIN MANAGEMENT

Students learn the basic analytical tools needed to coordinate business operations across the value chain. Course involves hands-on coverage of supply chain management with emphasis on supplier partnering and development, customer relations management, strategic sourcing and pricing, e-business, measuring supply chain performance, mass customization, planning supply and demand coordination in the supply chain. Prerequisite: MIS 34064.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44065 STRATEGIES IN PRODUCTION AND OPERATIONS MANAGEMENT

Senior project in industrial management. Applies concepts from all prior coursework to the solution of real and simulated operating problems. Prerequisites: Cumulative 2.50 GPA; and MIS 44064.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

Course Attributes: Writing Intensive Course

MIS 44066 STRATEGIES IN WORLD CLASS OPERATIONS

Introduce the student to lean production methodology, often referred to as Japanese management. Prerequisite: Senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44091 SEMINAR IN HUMAN RESOURCE MANAGEMENT

In-depth readings, discussion projects and presentations in a specialized area of human resource management.

Prerequisites: minimum 2.75 cumulative GPA; and MIS 24053 or BMRT 11009; and MIS 34180 or BMRT 21006; and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44093 VARIABLE TITLE WORKSHOP IN MANAGEMENT AND INFORMATION SYSTEMS

Variable title workshop courses offered under management and information sciences. Prerequisite: Cumulative 2.50 GPA.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Management and Information Systems

MIS 44095 SPECIAL TOPICS IN MIS

Offered on a semester basis with different topics and different faculty involved each time the course is offered. Prerequisite: Cumulative 2.50 GPA; and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44096 INDIVIDUAL INVESTIGATION IN MANAGEMENT

Presents opportunity to undertake research.

Approval of topic and agreement to work with student must be secured from faculty member and the chairperson of the department prior to registration.

Prerequisite: Special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Management and Information Systems

MIS 44150 TOTAL QUALITY MANAGEMENT

Considers the application of sound management principles and theories needed for successful implementation of quality processes and systems. Course is based on class discussion and cases.

Prerequisites: Cumulative 2.50 GPA; and MIS 24163 or BMRT 11009; and business management (BMGT) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

Course Attributes: Writing Intensive Course

MIS 44152 COLLABORATIVE PROJECT MANAGEMENT

Overview of the concepts, procedures and fundamental processes related to managing international projects. Introduction to the principles, tools and techniques of integrated project management.

Emphasizes project management as primary means for implementing strategic initiatives and prepares students for certification as a Project Management Professional (PMP). Prerequisites: Minimum cumulative 2.50 GPA and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44163 GLOBAL BUSINESS MANAGEMENT

Provides an overview of contemporary issues and theoretical frameworks in the field of international strategic management using traditional lecture and practical application cases. Prerequisites: Senior standing and minimum 2.50 cumulative GPA.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

Course Attributes: Writing Intensive Course

MIS 44183 DEVELOPING AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS

Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.

Prerequisites: Cumulative 2.75 GPA; and MIS 34180 or BMRT 21006; and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 44191 SENIOR RESEARCH SEMINAR IN MANAGEMENT

Combination of individual or group research and class discussion for superior students. Investigations in administration and organization conducted in accordance with scholarly interests of participants.

Prerequisite: Special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Management and Information Systems

MIS 44192 INTERNSHIP IN MANAGEMENT

A supervised field experience requiring a minimum of 120 hours of work at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on the job experiences.

Prerequisite: Special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Management and Information Systems

MIS 44195 ADVANCED TOPICS IN HUMAN RESOURCE MANAGEMENT

Advanced topics course that are offered on a yearly basis. Topics can span the full range of HR functions. This course can also have a practicum format. Prerequisites: minimum 2.75 cumulative GPA; and MIS



34180 or BMRT 21006; and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 44285 INTEGRATED BUSINESS POLICY AND STRATEGY

Integration of the functional areas of business in the formulation and implementation of policy. Projects and case analyses of business situations provide students with the opportunity to apply analytical and creative problem solving skills. Prerequisites: minimum cumulative GPA of 2.50; and major within the College of Business Administration; and senior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 44292 INTERNSHIP IN INFORMATION SYSTEMS

Preparation of a research report concurrent with on-the-job experience in the information systems department of a cooperating business or industrial organization. Prerequisites: minimum 2.50 cumulative GPA and MIS 24060 and computer information systems (CIS) major and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 44293 WORKSHOP IN PROFESSIONAL IS CERTIFICATION

Supervised workshop in which students are coached with the objective of passing a commercial certification exam to obtain Microsoft, Cisco, or other vendor's Information Technology credential. Prerequisite: MIS 34070.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Management and Information Systems

MIS 44392 BUSINESS CONSULTING AND PRACTICUM

Provides decision-making tools for solving real-world problems by building synergies in prior knowledge to create a synthesis of real life solutions delivery mechanisms underpinning them to pressing problems of the local and international community. The practicum component includes consulting experience with both for profit and not-for-profit business clients. Prerequisites: minimum 2.50 cumulative GPA; and junior standing.

3.000 Credit hours

1.000 Lecture hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Lecture, Practicum
Department: Management and Information Systems

MIS 64005 STATISTICS FOR MANAGEMENT

This course uses computer capabilities to use and understand a variety of statistical techniques and applies these techniques to business problems. Prerequisite: admission to M.B.A. program and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64007 INFORMATION TECHNOLOGY

Overview of database and advanced information processing technologies and their integration. Emphasis is placed on the use of the application to the manufacturing and service industries. Prerequisite: graduate standing and special approval of instructor.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64011 SYSTEMS SIMULATION

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis of interpretation and of results. Prerequisite: graduate standing and special approval of instructor.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64012 SCHEDULING AND PLANNING I

An introduction to production planning and scheduling models used to solve real-world problems. Included are aggregate planning; nonlinear cost; production and work force smoothing; adaptive multistage models and pull systems (JIT, OPT). Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64013 NONPARAMETRIC STATISTICS

This course is a presentation of statistically sound techniques for analysts who want to adopt non-parametric procedures to their

specific analytic needs. Prerequisite: MIS 64005 or 74005; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64015 STOCHASTIC MODELS

Mathematical modeling of systems involving one or more random variables. Probabilistic concepts in mathematical modeling; Poisson process, Markov chains and processes with applications to production, inventory, reliability and queues. Prerequisite: Special approval of instructor; and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64017 MULTIVARIATE STATISTICS

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis cluster analysis and factor analysis. Prerequisite: MIS 64023 or 74023; and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64018 MATHEMATICAL PROGRAMMING

Advanced techniques including interior-point methods in linear programming; branch-and-bound and cutting-plane methods; traveling salesman and knapsack models in integer programming. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management. Prerequisite: MIS 64015 or 74015; and graduate standing.

3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Seminar
Department: Management and Information Systems

MIS 64020 ADVANCED STATISTICAL MODELS

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity and reliability issues. Prerequisite: MIS 64023 or 74023; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64023 LINEAR STATISTICAL MODELS AND APPLICATIONS

Models and applications of simple and multiple regression, correlation and analysis of variance. Prerequisite: MIS 64005 or 74005; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64031 QUALITY AND RELIABILITY SYSTEMS

Modern quality and reliability assurance that combines statistical and behavioral aspects; sampling plan, statistical process control, tolerancing, reliability assurance, product and product optimization, economical allocation and scheduling of inspection. Prerequisite: graduate standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64033 MODERN MANUFACTURING MANAGEMENT

Major areas of study: importance of manufacturing and competitive position of U.S. manufacturing; strategic and organizational responses to gain competitive advantage; developments in manufacturing systems and management techniques. Prerequisite: Special approval of instructor and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64041 OPERATIONS MANAGEMENT

Develops a framework for analysis of operating problems. Uses computer, quantitative and behavioral models to develop operating plans consistent with

organizations' competitive (or service) strategy. Prerequisite: MIS 64005; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64042 MANAGEMENT INFORMATION SYSTEMS

Theory, development application and management of information systems and their impact on people and organizations; emphasis on strategy, ethics and competitive advantage of modern technology. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64045 SYSTEM DEVELOPMENT METHODOLOGIES

Critical comparative analysis of various technological and organizational methods for design, construction and maintenance of information systems. Survey of contemporary technologies and extrapolation to possible futures. Prerequisite: graduate standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64046 SEMINAR IN COMPUTER-SUPPORTED COLLABORATIVE WORK

Technical and management considerations of collaborative work technology, including networking; topics such as groupware, group decision support systems, telework, local area networking, Internet and network references. Prerequisite: graduate standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64047 MANUFACTURING TECHNOLOGY AND STRATEGY

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included. Prerequisite: graduate standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory. Prerequisite: graduate standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services communication standards and protocols local area networks and network management. Prerequisite: graduate standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64082 DATABASE MANAGEMENT SYSTEMS

In-depth investigation of intelligent database management systems in support of business decision making. An understanding of relational databases is assumed. Object-oriented and semantic database will be explored. Prerequisite: graduate standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64083 INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE

Introduction to the information security areas that managers must understand in order to deal with today's security threat-laden environment. The emphasis is on the important principals and concepts that managers utilize to develop effective security risk management programs. Prerequisite: Admission to MBA program or admission to MS IAKM program; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64108 ADVANCED TOPICS IN HUMAN RESOURCES MANAGEMENT AND ORGANIZATIONAL BEHAVIOR

Intensive investigation of selected topics in human resources management and/or organizational behavior. Students will be expected to undertake a research project



on a topic jointly determined by the student and the instructor. Prerequisite: graduate standing and special approval of instructor. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64158 LEADERSHIP AND MANAGERIAL ASSESSMENT

Develop understanding and skills in self management and team leadership using assessment instruments, role playing and organizational incidents. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64160 LEADERHSIP AND ORGANIZATIONAL CHANGE

Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64165 HIGH PERFORMANCE ORGANIZATIONS

Considers the traits of organizational leaders and the processes they use to implement changes in organizations. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64185 BUSINESS STRATEGY

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills. Prerequisite: Completion of 24 credit hours of graduate courses from the College of Business Administration and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64261 STRATEGIC DESIGN-MAKING AND HUMAN RESOURCE MANAGEMENT

Provides a first graduate-level introduction to the fundamental concepts of HRM/OB

and strategic decision-making. Prerequisite: graduate standing and special approval of instructor. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64263 EMPLOYEE SELECTION AND APPRAISAL

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees. Prerequisite: Graduate standing and MIS 64271. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64270 ORGANZATIONAL ANALYSIS AND DESIGN

Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze design and solve organizational problems within the work environment. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64271 HUMAN RESOURCE MANAGEMENT

Explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. Prerequisite: Admission to M.B.A. program and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64275 STRATEGIC GLOBAL MANAGEMENT

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager. Prerequisite: Completion of 24 credit hours of graduate courses from the College of Business Administration and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64277 MICRO-ORGANIZATIONAL ANALYSIS: INDIVIDUAL BEHAVIOR

An examination of theory and research on individual behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design and feedback systems. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 64285 MANAGING HIGH TECHNOLOGY

This course will cover tools and processes for anticipating and implementing high technologies to assure maximum return on investment for long-term competitive advantage. Prerequisite: MIS 64007 or 74007; and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74005 STATISTICS FOR MANAGEMENT I

This course uses computer capabilities to use and understand a variety of statistical techniques and applies these techniques to business problems. Prerequisite: admission to MBA program; and doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74007 INFORMATION TECHNOLOGY

Overview of database and advanced information processing technologies and their integration. Emphasis is placed on the use of the application to the manufacturing and service industries. Prerequisite: Doctoral standing and special approval of instructor. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74012 SCHEDULING AND PLANNING

An introduction to production planning and scheduling models used to solve real-world problems. Included are aggregate planning; nonlinear cost; production and work force smoothing; adaptive; multistage models and pull systems (JIT,OPT). Prerequisite: doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Management and Information Systems

MIS 74013 NON-PARAMETRIC STATISTICS

This course is a presentation of statistically sound techniques for analysts who want to adopt non-parametric procedures to their specific analytic needs. Prerequisite: MIS 64005 or 74005; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Business Administration

MIS 74015 STOCHASTIC MODELS

Mathematical modeling of systems involving one or more random variables. Probabilistic concepts in mathematical modeling; Poisson process; Markov chains and processes with applications to production, inventory, reliability and queues. Prerequisite: special approval of instructor; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74017 MULTIVARIATE STATISTICS

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis, cluster analysis and factor analysis. Prerequisite: MIS 64023 or 74023; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74018 MATHEMATICAL PROGRAMMING

Advanced techniques including interior-point methods in linear programming; branch-and-bound and cutting-plane methods; traveling salesman and knapsack models in integer programming. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the

course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management. Prerequisite: MIS 64015 or 74015; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Seminar
Department: Management and Information Systems

MIS 74020 ADVANCED STATISTICAL MODELS

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity, and reliability issues. Prerequisite: MIS 64023 or 74023; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74023 LINEAR STATISTICAL MODELS AND APPLICATIONS

Models and applications of simple and multiple regression, correlation and analysis of variance. Prerequisite: MIS 64005 or 74005; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74031 QUALITY AND RELIABILITY SYSTEMS

Modern quality and reliability assurance that combines statistical and behavioral aspects; sampling plan, statistical process control, tolerancing, reliability assurance, product and product optimization, economical allocation, and scheduling of inspection. Prerequisite: doctoral standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74033 MODERN MANUFACTURING MANAGEMENT

Major areas of study: importance of manufacturing and competitive position of U.S. manufacturing; strategic and organizational responses to gain competitive advantage; developments in manufacturing systems and management techniques. Prerequisite: special approval of instructor; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74041 OPERATIONS MANAGEMENT

Develops a framework for analysis of operating problems. Uses computer quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy. Prerequisite: MIS 64005 or 74005; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74042 MANAGEMENT INFORMATION SYSTEMS

Theory, development application and management of information systems and their impact on people and organizations; emphasis on strategy, ethics and competitive advantage of modern technology. Prerequisite: special approval and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74045 SYSTEM DEVELOPMENT METHODOLOGIES

Critical comparative analysis of various technological and organizational methods for design, construction and maintenance of information systems. Survey of contemporary technologies and extrapolation to possible futures. Prerequisite: doctoral standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74046 SEMINAR IN COMPUTER-SUPPORTED COLLABORATIVE WORK

Technical and management considerations of collaborative work technology, including networking topics such as groupware, group decision support systems, telework, local area networking, Internet and network references. Prerequisite: doctoral standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 74047 MANUFACTURING TECHNOLOGY AND STRATEGY

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included. Prerequisite: doctoral standing and special approval of instructor.
3.000 Credit hours



3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory. Prerequisite: doctoral standing and special approval of instructor.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services, communication standards and protocols, local area networks and network management. Prerequisite: doctoral standing and special approval of instructor.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74082 DATABASE MANAGEMENT SYSTEMS

In-depth investigation of intelligent database management systems in support of business decision making. An understanding of relational databases is assumed. Object oriented and semantic database will be explored. Prerequisite: doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74108 ADVANCED TOPICS IN HUMAN RESOURCES MANAGEMENT AND ORGANIZATIONAL BEHAVIOR

Intensive investigation of selected topics in human resources management and/or organizational behavior. Students will be expected to undertake a research project on a topic jointly determined by the student and the instructor. Prerequisite: Doctoral standing and special of instructor.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74160 LEADERSHIP AND ORGANIZATIONAL CHANGE

Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74165 HIGH PERFORMANCE ORGANIZATIONS

Considers the traits of organizational leaders and the processes they use to implement changes in organizations. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74185 BUSINESS STRATEGY

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed case analysis of actual business situations helps student further develop analytical and communication skills. Prerequisite: special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74261 STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT

Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision making. Prerequisite: doctoral standing and special approval of instructor.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74262 COMPETITIVE STRATEGIC ANALYSIS

Develops an understanding of the critical factors involved in formulating industry-analytic, competitive strategy and evaluating its effectiveness. Prerequisite: doctoral standing and special approval of instructor.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74263 EMPLOYEE SELECTION AND APPRAISAL

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74270 ORGANIZATIONAL ANALYSIS

Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment. Prerequisite: special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74275 STRATEGIC GLOBAL MANAGEMENT

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager. Prerequisite: special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74277 MICRO-ORGANIZATIONAL ANALYSIS: INDIVIDUAL BEHAVIOR

An examination of theory and research on individual behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design and feedback systems. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 74285 MANAGING HIGH TECHNOLOGY

This course will cover tools and processes for anticipating and implementing high technologies to assure maximum return on investment for long-term competitive advantage. Prerequisite: MIS 64007 or 74007; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Management and Information Systems

MIS 84007 INFORMATION TECHNOLOGY

Overview of information technologies and their management. Emphasis is placed on current issues in each of the technology types and business issues on their acquisition management and value.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84012 SCHEDULING AND PLANNING

An introduction to production planning and scheduling models used to solve real world problems. Included are aggregate planning; nonlinear cost; production and work force smoothing; adaptive multistage models and pull systems (JIT, OPT). Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Business Administration

MIS 84015 STOCHASTIC MODELS

Mathematical modeling of systems involving one or more random variables: basic probability theory; Poisson process, Markov chain and Markov process with applications to production, inventory, reliability and queuing systems.

Prerequisite: doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84020 ADVANCED STOCHASTIC MODELS

This is a special focus course for which the topics will vary. It will generally include sampling techniques experimental designs other advanced statistical models internal external validity and reliability issues and time series analysis. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84031 QUALITY AND RELIABILITY SYSTEMS

Modern Q & R assurance that combines statistical and behavioral aspects; Sampling Plans, Statistical Process Control, Tolerancing, Reliability Assurance, Product and Product Optimization, Economical Allocation and Scheduling of Inspection.

Prerequisite: doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84045 SYSTEM DEVELOPMENT METHODOLOGIES

Critical comparative analysis of various technological and organizational methods for design, construction and maintenance of information systems. Survey of contemporary technologies and extrapolation to possible futures.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84047 MANUFACTURING TECHNOLOGY AND STRATEGY

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included. Prerequisite: doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operations systems, artificial intelligence, neural networks and chaos theory. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS

An introduction to telecommunications networks, services and regulations. Topics include transmission media, communications standards and protocols, local and wide area networks, and network management and security. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84082 DATABASE MANAGEMENT SYSTEMS

In-depth investigation of intelligent database management systems in support of business decision-making. An understanding of relational databases is assumed. Object-orientation and other advanced database concepts will be explored. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84083 INFORMATION INFRASTRUCTURE SECURITY

A course in infrastructure security. In-depth examination of current issues in this field including network vulnerability, privacy and legal issues, and government agencies. Prerequisite: doctoral standing. Pre- or corequisite: MIS 84112.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84108 ADVANCED TOPICS IN HUMAN RESOURCE MANAGEMENT AND ORGANIZATIONAL BEHAVIOR

Intensive investigation of selected topics in human resources management and/or organizational behavior. Students will be expected to undertake a research project on a topic jointly determined by the student and the instructor. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84112 RESEARCH METHODOLOGY

The objectives of this course are: to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS enable students to conduct meaningful and high quality research in their specific field of interest. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Management and Information Systems

MIS 84261 STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT

Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making. Prerequisite: doctoral standing and special approval.

3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 84262 COMPETITIVE STRATEGIC ANALYSIS

Develops an understanding of the critical factors involved in formulating industry-analytic competitive strategy and evaluating its effectiveness. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 84263 EMPLOYEE SELECTION AND APPRAISAL

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 84266 READINGS IN MANAGEMENT SYSTEMS

Survey of the leading writers and research studies in the area of management systems. The course addresses methodologies, major theoretical developments and practical applications. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 84275 CORPORATE AND GLOBAL STRATEGY

Focuses on review and integration of the several streams of literature dealing with strategy for, and management of, the product-diversified and/or internationally-diversified firm. Also, in order to complement the emphasis of other doctoral offerings on strategy formulation topics, this seminar places a special emphasis on strategy process, organizational structure, and administrative mechanisms. In particular, it explores the foundations as well as current research on corporate governance, broadly define. This includes (I) the set of mechanisms available to align the interest of top managers to those of shareowners, as well as (II) the mechanisms available to motivate and control middle managers so that their decisions and behaviors are aligned with intended corporate and/or international strategy and goals. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 84277 ORGANIZATIONAL BEHAVIOR AND THEORY

An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics, power and teams. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 84285 TECHNOLOGY MANAGEMENT AND ENTREPRENEURSHIP

Covers topics pertaining to innovation management at micro-level (entrepreneurship, corporate entrepreneurship), meso-level (networks), and macro-level (cross-country and within-country comparisons). Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Management and Information Systems

MIS 84291 SEMINAR IN MANAGEMENT SYSTEMS

Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor. Prerequisite: doctoral standing and special approval of instructor.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Management and Information Systems

Marketing (MKTG)

MKTG 25010 PRINCIPLES OF MARKETING

(Equivalent to BMRT 21050) An overview of the processes, activities, and problems associated with the conception, planning, and execution of the pricing, promotion, and distribution of ideas, goods and services to create exchange values in the market. Offered both as an in-class and online course. Prerequisite: ECON 22060.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

Course Attributes: TAG Business

MKTG 35030 MARKETING APPLICATIONS

Students learn and apply strategic and financial analysis skills to make real-world marketing decisions. Emphasis on marketing planning and core strategic decisions in marketing, including segmentation, targeting and positioning. Prerequisites: MKTG 25010; and minimum cumulative GPA of 2.50; and marketing (MKTG) major.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

MKTG 35035 CONSUMER BEHAVIOR

Focus is on the decision-making processes of the individual consumer and the psychological, sociological, cultural and economic factors that influence those choices. Understanding why consumers behave in the way that they do is the heart of the study of consumer behavior and informs the formulation of marketing strategy. Periodically offered as an online course. Prerequisite: MKTG 25010.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

MKTG 35050 MARKETING RESEARCH

Focus is on the collection and analysis of new marketing data, both for exploratory and for decision-making purposes. Students work individually and in teams developing and communicating responses to managerial questions. Prerequisites: MKTG 25010 and MIS 24056; and minimum cumulative GPA of 2.50; and marketing (MKTG) major.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

MKTG 35055 INTERNET MARKETING

This course will give students an understanding of the ways in which the Internet and the World Wide Web can be integrated into the marketing mix. In addition tools of marketing which are available via the Internet will be explored. Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship



MKTG 40093 VARIABLE TITLE WORKSHOP IN MARKETING

Special topics in marketing. Hours credit depend on scope of project. Prerequisite: minimum cumulative GPA of 2.50 and special approval.

1.000 TO 6.000 Credit hours
3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Marketing and Entrepreneurship

MKTG 45045 ADVERTISING AND PROMOTION MANAGEMENT

Increases students' understanding of advertising concepts as well as structure and functions of different "players" within the industry. Integrates marketing and advertising theory with application in advertising decision-making. Periodically offered as an online course. Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 45046 PERSONAL SELLING

Introduces students to effective communication, successful selling and persuasion techniques, building customer relationships, ethics, the buying and selling process, and developing professional sales calls. Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 45047 ADVANCED PROFESSIONAL SELLING

Builds on the foundation established in Personal Selling and Sales Management (MKTG 45046) by applying sales concepts, participating in live sales calls with Business Partner Company Sales Reps, spending highly focused time in role plays with immediate feedback from the instructors, interacting with guest speakers who are experts in sales, and studying advanced sales and persuasion techniques. Experiential course that requires some flexibility with scheduling for the shadow experiences. Prerequisites: MKTG 45046 or MMTG 45026; and a minimum cumulative GPA of 2.50.

3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Marketing and Entrepreneurship

MKTG 45060 INTERNATIONAL MARKETING

Examination of international marketing in terms of global markets and trade.

Emphasizes differences among markets caused by geography, politics, economics, culture, commercial policy and trade practices. Periodically offered as an online course. Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 45082 SERVICE, RETAIL AND WEB-BASED MARKETING

Survey of the fields of service, retail and web-based marketing. Analysis of critical marketing mix decisions pertaining to services, retailing and cyberspace marketing. Processes for building and managing customer relationships and loyalty are addressed. Prerequisites: MKTG 35030 and minimum cumulative GPA of 2.50.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 45084 MARKETING POLICIES AND STRATEGIES

Capstone course for marketing majors. Course deals with marketing policies and strategies with emphasis on managerial decision-making case approach.

Prerequisites: minimum cumulative 2.50 GPA; and MKTG 35030; and marketing (MKTG) major; and senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

Course Attributes: Writing Intensive Course

MKTG 45091 MARKETING SEMINAR

Current topics in marketing. Certain sections of this variable topic seminar may require instructor special approval or have further prerequisites. See current schedule of classes. Prerequisite: MKTG 25010 or BMRT 21050 or MKTG 35035; and minimum cumulative GPA of 2.50.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Marketing and Entrepreneurship

MKTG 45096 INDIVIDUAL INVESTIGATION IN MARKETING

Independent investigation of appropriate problem undertaken by a senior marketing major. Prerequisite: special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Marketing and Entrepreneurship

MKTG 45292 MARKETING INTERNSHIP

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization.

Prerequisites: MKTG 25010 or BMRT

21050 or MKTG 35035; and special approval.

3.000 Credit hours

0.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation, Practicum

Department: Marketing and Entrepreneurship

MKTG 65050 MODERN ENTREPRENEURIAL MANAGEMENT

Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies. Prerequisite: Completion of 24 credit hours of business administration (BAD) courses and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 65051 MARKETING MANAGEMENT

Analysis of marketing management at a level appropriate to students with limited background in the subject. Course encompasses lecture discussion problems and cases. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 65053 PROMOTION MANAGEMENT

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 65054 INTERNATIONAL MARKETING

This course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm. Prerequisite: MKTG 65051 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

**MKTG 65057 MARKETING RESEARCH**

Examination of the research process as applied to decision making. Course focuses on steps in problem formulation the research process application of techniques and basis data analysis using SPSS-PC.

Prerequisite: MKTG 65051; graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 65060 MARKETING STRATEGY AND PLANNING

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations. Prerequisite: MKTG 65051; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 65063 ANALYTICAL METHODS IN MARKETING RESEARCH

Application of statistical techniques in marketing research. Prerequisite: MKTG 65051 or 75051; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 65064 BUYER BEHAVIOR

An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies. Prerequisite: BAD 65051 or 75051; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 65066 MARKETING THEORY

Examination of the evolution of marketing thought and philosophy of science concepts as the foundations for evaluating theoretical constructs in marketing. Prerequisite: MKTG 65051 or 75051; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 65068 MARKETING STRATEGY AND PLANNING FOR NONPROFIT ORGANIZATIONS

Focuses on the development and implementation of marketing plans in the private and public non-profit organizations. Prerequisite: MKTG 65051 or 75051; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 65184 INTERNATIONAL BUSINESS

Study of the business firm in a global context. Application of theory and practice of American business administration to international operations of firms.

Prerequisite: ECON 62021 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 75050 MODERN ENTREPRENEURIAL MANAGEMENT

Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies. Prerequisite: special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 75051 MARKETING MANAGEMENT

Analysis of marketing management at a level appropriate to students with limited background in the subject. Course encompasses lecture discussion problems and cases. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 75053 PROMOTION MANAGEMENT

All elements of the promotional mix-advertising, sales, promotion, publicity, public relations and personal selling-will be considered as part of an integrated communications strategy. Primary emphasis will be placed on advertising. A comprehensive set of analytical frameworks will be developed covering a range of topics from the firm's marketing strategy to the message strategy embodied in a single advertisement. These analytic frameworks will be applied to a series of case studies throughout the course. Prerequisite: MKTG 65051 or 75051; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 75054 INTERNATIONAL MARKETING

This course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm. Prerequisite: MKTG 65051 or 75051; and MKTG 65184 or 75184; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 75057 MARKETING RESEARCH

Examination of the research process as applied to decision making. Course focuses on steps in problem formulation, the research process, application of techniques, and basis data analysis using SPSS-PC. Prerequisite: MKTG 65051 or 75051; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 75060 MARKETING STRATEGY AND PLANNING

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations. Prerequisite: MKTG 65051 or 75051; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 75063 ANALYTICAL METHODS IN MARKETING RESEARCH

Application of statistical techniques in marketing research. Prerequisite: MKTG 65051 or 75051; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Marketing and Entrepreneurship

MKTG 75064 BUYER BEHAVIOR

An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies. Prerequisite: MKTG 65051 or 75051; and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate



Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MKTG 75066 MARKETING THEORY

Examination of the evolution of marketing thought and philosophy of science concepts as the foundations for evaluating theoretical constructs in marketing. Prerequisite: MKTG 65051 or 75051; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MKTG 75068 MARKETING STRATEGY AND PLANNING FOR NONPROFIT ORGANIZATIONS

Focuses on the development and implementation of marketing plans in the private and public non-profit organizations. Prerequisite: MKTG 65051 or 75051; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MKTG 75184 INTERNATIONAL BUSINESS

Study of the business firm in a global context. Application of theory and practice of American business administration to international operations of firms. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MKTG 85057 MARKETING RESEARCH

Focuses on the construction of a conceptual framework; the design of an experiment sampling plan data collection methods and the application of statistical techniques. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MKTG 85063 ANALYTICAL METHODS IN MARKETING RESEARCH

Application of multivariate statistical techniques in marketing research. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MKTG 85064 BUYER BEHAVIOR

An analysis of extant and emerging theories, models and concepts of buyer consumer behavior and their development and testing. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MKTG 85066 MARKETING THEORY

The central objective of the course is to develop the doctoral student's background in marketing theory, theory construction and the creation of marketing knowledge. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MKTG 85091 ADVANCED INTERNATIONAL MARKETING SEMINAR

Covers the theoretical research development of the field of international marketing. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Marketing and
Entrepreneurship

MKTG 85097 SEMINAR IN MARKETING

Investigation of selected topics in marketing. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: Marketing and
Entrepreneurship

MKTG 85098 RESEARCH IN MARKETING

Designed to assist students in developing dissertation topics or to provide an opportunity to study material or topic not covered elsewhere in the program. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Marketing and
Entrepreneurship

Managerial Marketing (MMTG)

MMTG 35011 MARKETING TOOLS

Topics include the analytical, financial, statistical, communications, and decision-making skills and development of the technical competencies needed to succeed as a marketing professional in small-sized firms. Prerequisites: minimum cumulative 2.50 GPA; and MIS 24053 and MKTG

25010; and managerial marketing (MMTG) major.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship
Course Attributes: Writing Intensive Course

MMTG 35021 RESEARCH FOR MARKETING DECISIONS

Focuses on the effective collection, organization, evaluation and use of data pertaining to marketing decision-making. Data analysis, interpretation and presentation methods suited for a small-sized firm are emphasized. Prerequisites: MMTG 35011 and minimum cumulative GPA of 2.50.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MMTG 35023 CUSTOMER ANALYSIS

Addresses the methods marketers use to appraise the value of customer groups. Segmentation, target marketing, selected theories of consumer and buyer behavior, and database organization and analysis methods are covered. Prerequisite: MMTG 35011 and minimum cumulative GPA of 2.50.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and
Entrepreneurship

MMTG 35024 HANDS-ON TECHNOLOGY ENHANCEMENT LABORATORY

Lab designed to expand student's abilities with spreadsheets, statistical packages and presentation software. Prerequisites: MIS 24053 or COMT 11000; and MKTG 25010 or BMRT 21050; and minimum cumulative GPA of 2.50; and managerial marketing (MMTG) major.
1.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Marketing and
Entrepreneurship

MMTG 35026 DECISION-MAKING SKILL ENHANCEMENT LABORATORY

Lab designed to expand student's data interpretation, decision-making and creative problem-solving skills. Prerequisite: MMTG 35011 and minimum cumulative GPA of 2.50.
1.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Marketing and
Entrepreneurship

**MMTG 45020 COMPETITIVE MARKET ANALYSIS**

Focuses on establishing and maintaining competitive positions in markets through product and pricing strategies driven by industry and competitive analysis. Methods for assessing market potential and forecasting are explored. Prerequisites: MMTG 35021 and 35023; and minimum cumulative GPA of 2.50.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

MMTG 45026 PERSONAL SELLING METHODS AND PRACTICES LABORATORY

Lab provides an overview of selling methods and practices. Students will engage in one-on-one role playing and other simulated selling scenarios. Prerequisites: MMTG 35021 and 35023; and minimum cumulative GPA of 2.50.
1.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Marketing and Entrepreneurship

MMTG 45030 CHANNEL MANAGEMENT

Addresses the management of suppliers and customers related to the buying and selling of goods and services. Topics include channel relationships and functions, distribution, cost management, exporting, negotiations, and sales force management. Prerequisites: MMTG 35021 and MMTG 35023; and minimum cumulative GPA of 2.50.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

MMTG 45039 PROMOTION MANAGEMENT

Covers the promotional tools and their role in communicating with customers. Emphasis is on the selection, budgeting and implementation of promotional tools appropriate for smaller-sized enterprises. Prerequisites: MMTG 45020 and 45030; and minimum cumulative GPA of 2.50.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

MMTG 45040 INTEGRATED MARKETING STRATEGY

This is the capstone course for managerial marketing majors. Emphasis is on the integration of marketing concepts and decision-making methods and skills to derive sound marketing decisions.

Prerequisites: MMTG 45020 and minimum cumulative GPA of 2.50.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Marketing and Entrepreneurship

Military Science (MSCI)**MSCI 10180 INTRODUCTION TO LEADERSHIP I**

Introduces the student to the concept of leadership in the military and in democratic society in general. Examines leadership characteristics principles and styles. Students must participate in outdoor character-building exercises. Corequisite: MSCI 10190 (ROTC only).
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 10185 INTRODUCTION TO LEADERSHIP II

Introduces the student to techniques and methods that leaders must employ. Examines time management, stress management, staff/group dynamics, problem solving process and leadership climate. Corequisite: MSCI 10191 (ROTC only).
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 10191 LEADERSHIP SEMINAR I

(Repeatable for a total of 2 credit hours) Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. Stresses decision-making roles of leaders in planning and executing organizational programs. Corequisite: MSCI 10180 or MSCI 10185.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience, Seminar
Military Science Department

MSCI 20180 SURVEY OF AMERICAN MILITARY HISTORY

Traces North American military history, theory, doctrine, strategy and tactics from the pre- Revolutionary period to the present. Prerequisite: none.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 20181 LEADERSHIP ASSESSMENT I

Interdisciplinary study of organizational leadership and group dynamics through assessment of sixteen behavioral

dimensions. Provides practical application and assessment of leadership skills in formal organizations. Corequisite: MSCI 20190 (ROTC only).
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 20183 LEADERSHIP ASSESSMENT II

Interdisciplinary study of organizational leadership and group dynamics through assessment of 16 behavioral dimensions. Provides practical application and assessment of leadership skills in formal organizations. Corequisite: MSCI 20191 (ROTC only).
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 20191 LEADERSHIP SEMINAR II

(Repeatable for a total of 2 credit hours) Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. Stresses decision-making roles of leaders in planning and executing organizational programs. Corequisite: MSCI 20180 or MSCI 20181 or MSCI 20183.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience, Seminar
Military Science Department

MSCI 20196 INDIVIDUAL RESEARCH

Individual research projects in leadership, management techniques and mode program. Used only for selected personnel for entry into the advanced program. Prerequisite: Sophomore standing and special approval.
1.000 OR 2.000 Credit hours
1.000 OR 2.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Military Science Department

MSCI 30160 LEADERSHIP DEVELOPMENT

Develops managerial skills with emphasis on group dynamics, leadership theory and practical leadership experiences. Integrates communication skills, decision-making and group motivation. Prerequisite: special approval. Corequisite: MSCI 30191.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 30170 ORGANIZATIONAL LEADERSHIP

Application of management fundamentals, decision theory and leadership principles to organizations. Emphasis in coordinating, directing and controlling organizations.



Prerequisite: special approval. Corequisite: MSCI 30191.

2.000 Credit hours
2.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 30183 LEADERSHIP PRACTICUM

Practical application of leadership in the military team. Prerequisite: Special approval.

1.000 TO 4.000 Credit hours
7.000 TO 28.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 30191 LEADERSHIP SEMINAR III

Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. stresses decision-making roles of leaders in planning and executing organizational programs. Corequisite: MSCI 30160 or MSCI 30170.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate
Schedule Types: Field Experience, Seminar
Military Science Department

MSCI 40160 MILITARY MANAGEMENT AND ETHICS

Professional ethics and responsibilities of military leaders. Development of interpersonal and managerial communicative skills. Prerequisite: special approval. Corequisite: MSCI 40191.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 40170 THE PROFESSIONAL MILITARY OFFICER, MANAGEMENT, AND LAW

Studies in professional officer development, military justice system and the management of personnel resources. Prerequisite: special approval. Corequisite: MSCI 40191.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Military Science Department

MSCI 40191 LEADERSHIP SEMINAR IV

Instructional program preparing individuals to undertake the broad range of tasks associated with the dimensions of leadership. Stresses decision-making roles of leaders in planning and executing organizational programs. Corequisite: MSCI 40160 or MSCI 40170.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate
Schedule Types: Field Experience, Seminar
Military Science Department

MSCI 40196 INDIVIDUAL INVESTIGATION

Individual research projects, reports and readings. Prerequisite: Special approval and advanced program standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate
Schedule Types: Individual Investigation
Military Science Department

Music (MUS)

MUS 11110 MUSIC FUNDAMENTALS

Introduction to the pitch and rhythmic aspects of music. Emphasis on aural skills and music notation. Prepares students for MUS11111, Music Rudiments. No credit toward graduation for music majors or minors. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 11111 MUSIC RUDIMENTS

Introduction to the pitch and rhythmic aspects of music. Emphasis on aural/oral skills and music notation. No credit toward graduation for music majors or minors. Prerequisite: Music Theory Placement Test, score of 01.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 11121 THEORY

Basic elements of music--harmonic, melodic, rhythmic--studied through analysis, composition, keyboard and ear training. Diatonic materials emphasized. Prerequisite: Music Theory Placement Test, score of 02.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 11122 THEORY

Continuation of basic elements of music--harmonic, melodic, rhythmic-- studied through analysis, composition, keyboard, singing and ear training. Chromatic materials emphasized. Prerequisite: MUS 11121 with a grade of C- (1.7) or better.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 17011 PIANO CLASS FOR NONMUSIC STUDENTS

Development of basic skills required in playing piano, including familiarity with the keyboard and music notation. Prerequisite: None.

2.000 Credit hours

3.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 17012 PIANO CLASS FOR NONMUSIC STUDENTS

Development of basic skills required in playing piano, including familiarity with the keyboard and music notation. Prerequisite: MUS 17011.

2.000 Credit hours

3.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 17111 PIANO CLASS

Preparatory piano. Credit not acceptable on music major sequences. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation. Prerequisite: Special approval.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 17112 PIANO CLASS

Preparatory piano. Credit not acceptable on music major sequences. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation. Prerequisite: MUS 17111 with a grade of C- (1.7) or better.

1.000 Credit hours

2.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 18611 SINGER'S DICTION I

Foundational training and performance practice in phonetics and singing diction for the English, American, Ecclesiastical Latin and Italian vocal repertoire. Prerequisite: Music (MUS) or music education (MUED) major.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 18612 SINGER'S DICTION II

Foundational training and performance practice in phonetics and singing diction for the vocal repertoire of French, German and selected other languages. Prerequisite: Music (MUS) major and MUS 18611 with a grade of C- (1.7) or better.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 20295 SPECIAL TOPICS IN MUSIC

Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member. Prerequisite: Music (MUS) major. 1.000 TO 3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 21113 MUSIC PRODUCTION I

A practical introduction to digital audio production, study of basic computer assisted recording, editing and music production. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 21114 MUSIC PRODUCTION II

A practical study of computer assisted composition and arranging covering MIDI, sequencing, synthesis, sampling and video synchronization. Prerequisite: MUS 21113 with minimum C (2.0) grade.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 21121 MUSIC THEORY TO 1750

Study of Western musical style from Gregorian chant through the Baroque period. Emphasis on aural, compositional, written and keyboard approaches as appropriate to medieval, Renaissance and Baroque music. Prerequisite: MUS 11122 with a grade of C- (1.7) or better.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 21122 MUSIC THEORY FROM 1750 TO 1900

Study of Western musical style from the early classical to the late Romantic period. Emphasis on aural, compositional, written and keyboard approaches as appropriate to classical and Romantic music. Prerequisite: MUS 21121 with a grade of C- (1.7) or better.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 21221 AUDIO RECORDING I

A study of basic live and studio recording fundamentals and techniques, including signal flow, microphones and recording equipment. Prerequisite: minimum grade of C (2.0) in MUS 21113.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 21222 AUDIO RECORDING II

A study of multi-track micing and recording techniques, session setup and management, and elements required for the

reference mix. Prerequisite: MUS 21221 with minimum C (2.0) grade.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 21341 COMMERCIAL MUSIC THEORY AND COMPOSITION

Application of the knowledge gained from Music Theory (MUS 11121 and 11122) to the study of popular music through practical applications, particularly with regard to composition and improvisation.

Prerequisites: Minimum grade of C (2.0) in MUS 11121 and 11122 and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 22111 THE UNDERSTANDING OF MUSIC

A listening approach for the understanding of Western art music, folk and jazz. Particular attention is paid to musical styles forms and compositional techniques as related to music history. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music
Course Attributes: Kent Core-Fine Arts, Transfer Module-Fine Arts

MUS 22121 MUSIC AS A WORLD PHENOMENON

An introduction to music as a world phenomenon. Study of selected art, folk and popular music from world cultures through live performances, tapes, films, video tapes and readings. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music
Course Attributes: Diversity Course-Global, Kent Core-Fine Arts, Transfer Module-Fine Arts

MUS 22131 SURVEY OF ROCK MUSIC HISTORY

A survey of Rock Music History from the 1950s through the twentieth century to today. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music
Course Attributes: Diversity Course-Domestic

MUS 23241 MUSIC TEACHING AS A PROFESSION

Basic teaching strategies and techniques; an overview of music teaching as a career; diversity, integration, curriculum technology, classroom management, legal issues, personal skills and portfolio. Forty five field/clinical hours required. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 25011 UNIVERSITY CHORUS

Choral ensemble which studies and performs sacred and secular music for mixed voices. Activities include performance on and off campus. Prerequisite: Special approval.

1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music
Course Attributes: TAG Arts/Humanities

MUS 25131 OPERA: SINGER-ACTOR TECHNIQUES

Training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study, observation and rehearsal. Prerequisite: Special approval.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 25225 UNIVERSITY BAND

Study and performance of music literature for wind band appropriate for music majors and non-majors. Repeated registration permitted. Prerequisite: None.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 25231 JAZZ ENSEMBLE

Study and performance of music literature for jazz ensemble appropriate for music majors and non-majors. Repeated registration permitted. Prerequisite: None.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 25311 CHAMBER MUSIC

Repeated registration permitted. The study and performance of music for small ensembles. Prerequisite: Permission.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Music

**MUS 27111 PIANO CLASS**

Continuation of piano classes. Credit acceptable on music major and minor sequences. Prerequisite: MUS 17112 with a grade of C (2.0) or better.
2.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 27112 PIANO CLASS

Continuation of piano classes. Credit acceptable on music major and minor sequences. Prerequisite: MUS 27111.
2.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 31111 ADVANCED SIGHT SINGING

Advanced sight singing and ear training. Sight singing in five clefs emphasizing vocal and instrumental works from various periods including contemporary. Prerequisite: MUS 21122.
2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 31113 MUSIC PRODUCTION III

Continuation of Music Production II, advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on arranging. Prerequisite: Minimum grade of C (2.0) in MUS 21113 and 21114.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 31114 MUSIC PRODUCTION IV

Continuation of Music Production III, creating audio for short video projects including the study of time code, synchronization, electronic editing, video and film transports, Dolby stereo, equipment interfacing and future developments. Prerequisite: Minimum grade of C (2.0) in MUS 31113.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 31121 WESTERN MUSIC SINCE 1900

Class meets three hours per week. The study of western art music since 1900 from historical and theoretical viewpoints. Emphasis on aural listening music composition and written skills as well as intellectual understanding. Prerequisite: MUS 21122 and MUS 32212, both with C- (1.7) minimum grade.
2.000 Credit hours
2.000 Lecture hours
0.000 Lab hours

Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Music

MUS 31211 COMPOSITION

(repeated registration permitted) original composition for instrumental and vocal solos and small ensembles using shorter musical forms. Prerequisite: music (MUS) or music education (MUED) major.
2.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 31221 AUDIO RECORDING III

A study of the elements, functions and techniques of digital audio multi-track mixing. Prerequisite: Minimum grade of C (2.0) in MUS 21222.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 31222 AUDIO RECORDING IV

A detailed study of the tools, techniques and critical listening decisions required in creating a professional digital audio mix. Prerequisite: Minimum grade of C (2.0) in MUS 31221.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 32211 MUSIC HISTORY TO 1750

A survey of Western music history from early Christian chants through the Baroque style. Prerequisite: MUS 21121; and MUS 21122 with a grade of C- (1.7) or better; and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 32212 MUSIC HISTORY 1750 TO 1900

A survey of Western music history of the 18th and 19th centuries. Prerequisite: MUS 21121 and MUS 21122; and MUS 32211 with a grade of C- (1.7) or better and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music
Course Attributes: Writing Intensive Course

MUS 33111 TEACHING MUSIC IN THE ELEMENTARY CLASSROOM

Study of music and related arts for the classroom. Development of music skills and strategies for teaching music to children in elementary Departments. Three field/clinical hours are required. Prerequisite: MUS 23111 and EDPF 28911

and EDPF 29515 and EDPF 29592 and CI 20000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 33211 ELEMENTARY AND SECONDARY GENERAL MUSIC

Kodaly, Orff, Dalcroze and recent methods in general music. Music reading in elementary and secondary classes; cultural diversity and pedagogy for the special learner. Sixty field/clinical hours required. Prerequisite: Music (MUS) major. Corequisite: MUS 33212.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 33212 TEACHING SKILLS IN MUSIC EDUCATION:**GENERAL/INSTRUMENTAL**

Clinical experience in the teaching of general and instrumental music in the Departments. Fifteen field/ clinical hours required. Prerequisite: Music (MUS) major and junior standing. Corequisite: MUS 33211 or MUS 43231.
1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 33213 TEACHING SKILLS IN MUSIC EDUCATION: CHORAL/ORCHESTRAL

Clinical experience in the teaching of choral and orchestral music in the Departments. Fifteen field/ clinical hours required. Prerequisites: Music (MUS) or music education (MUED) major and junior standing. Corequisite: MUS 33231 or MUS 43211.
1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 33214 MUSIC TECHNOLOGY FOR MUSIC EDUCATORS

The application of technologies specific to music instruction and learning for music education majors. Emphasis is placed on project-based instruction focusing on the practical uses of technology in school settings. Prerequisite: none.
1.000 Credit hours
1.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 33231 ELEMENTARY AND SECONDARY CHORAL MUSIC

Choral methods, rehearsal techniques, conducting skills and literature used in elementary and secondary Departments. Sixty field/clinical hours required.



Prerequisite: MUS 23241 and MUS 34111.

Corequisite: MUS 33213.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 34111 ELEMENTARY CONDUCTING

Introduction to and study of conducting: beat patterns, baton techniques, score reading, analysis and interpretive elements. Six field/clinical hours are required.

Prerequisite: MUS 21121.

2.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 35213 STUDIO ENSEMBLE

Development of ensemble skills through small group experience performing diverse popular styles from notation, developing improvisation skills and creating arrangements from lead charts. Students must audition for the director prior to registration for the course. Course is repeatable up to 16 credit hours.

Prerequisite: special approval.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Music

MUS 36011 APPLIED MUSIC JAZZ

Private instrumental instruction in Jazz techniques. Prerequisite: audition and special approval.

2.000 Credit hours

0.500 TO 1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson

Department: Music

MUS 36111 APPLIED MUSIC-PIANO

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.500 OR 2.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36311 APPLIED MUSIC-VOICE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36411 APPLIED MUSIC-VIOLIN

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36412 APPLIED MUSIC-VIOLA

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36413 APPLIED MUSIC-CELLO

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36414 APPLIED MUSIC-DOUBLE BASS

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36511 APPLIED MUSIC-FLUTE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36512 APPLIED MUSIC-OBOE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36513 APPLIED MUSIC-CLARINET

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36514 APPLIED MUSIC-BASSOON

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36515 APPLIED MUSIC-SAXOPHONE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 36611 APPLIED MUSIC-TRUMPET

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.



2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson, Studio
Department: Music
Course Attributes: TAG Arts/Humanities

MUS 36612 APPLIED MUSIC-HORN

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson, Studio
Department: Music
Course Attributes: TAG Arts/Humanities

MUS 36613 APPLIED MUSIC-TROMBONE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson, Studio
Department: Music
Course Attributes: TAG Arts/Humanities

MUS 36614 APPLIED MUSIC-EUPHONIUM

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson, Studio
Department: Music
Course Attributes: TAG Arts/Humanities

MUS 36615 APPLIED MUSIC-TUBA

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson, Studio
Department: Music
Course Attributes: TAG Arts/Humanities

MUS 36711 APPLIED MUSIC-PERCUSSION

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study.

Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson, Studio
Department: Music
Course Attributes: TAG Arts/Humanities

MUS 36912 APPLIED MUSIC-GUITAR

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS), music technology (MUST) or music education (MUED) major.
2.000 OR 4.000 Credit hours
1.500 OR 2.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson, Studio
Department: Music
Course Attributes: TAG Arts/Humanities

MUS 36913 APPLIED STUDIO MUSICIANSHIP

Development of performance proficiency in contemporary popular music styles appropriate for the performance idiom through individual instruction. Students must audition for the director prior to registration for the course. Course is repeatable up to 16 credit hours. Prerequisite: special approval.
2.000 TO 4.000 Credit hours
2.000 TO 4.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Music

MUS 37111 FUNCTIONAL PIANO

Development of keyboard facility for practical purposes in classroom. Prerequisite: MUS 2112.
2.000 Credit hours
4.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Music

MUS 37113 PIANO SKILLS FOR THE CHORAL/GENERAL MUSIC EDUCATOR

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals. Prerequisite: MUS 36111 with a minimum grade of C- (1.7).
2.000 Credit hours
1.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 37114 PIANO SKILLS FOR THE INSTRUMENTAL MUSIC EDUCATOR

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals. Prerequisites: MUS 17112 and 21122; or minimum score of 80 on piano placement test.
1.000 Credit hours
1.000 Lab hours

Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 40092 MUSIC TECHNOLOGY INTERNSHIP

On-the-job experience with cooperating business in the field of music technology and preparation of a final report or an applicable project. Repeatable up to 2 credit hours. Prerequisites: Minimum grade of C (2.0) in MUS 41114 or 41222; and a cumulative 2.25 GPA; and music technology (MUST) major and special approval.
2.000 Credit hours
15.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Music

MUS 40295 SPECIAL TOPICS IN MUSIC (repeatable for a total of 12 hours)

Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member. Prerequisite: None.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 40296 INDEPENDENT STUDY: MUSIC

Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses. Prerequisite: Music (MUS) or music education (MUED) major and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Music

MUS 41111 PRACTICUM IN MUSIC THEORY

Ear training, sight singing and analysis in preparation for graduate level music theory course work. Prerequisite: Permission.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Private Lesson
Department: Music

MUS 41113 MUSIC PRODUCTION V

Continuation of Music Production IV, advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on original music. Prerequisite: Minimum grade of C (2.0) in MUS 31114.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 41114 MUSIC PRODUCTION VI

Continuation of Music Production V, create music to accompany a visual medium by



learning fundamental to more advanced film scoring techniques. Prerequisite: Minimum grade of C (2.0) in MUS 41113.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 41131 KEYBOARD HARMONY

Theoretical skills demonstrated at the keyboard: harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation. Prerequisite: MUS 21122.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 41141 SIXTEENTH-CENTURY COUNTERPOINT

Two-, three -and four part vocal counterpoint in 16th century style.

Prerequisite: MUS 21122.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 41151 EIGHTEENTH-CENTURY COUNTERPOINT

Technique of writing counterpoint in 18th-century style, especially that of J. S. Bach.

Prerequisite: MUS 21122.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 41161 ADVANCED MUSICAL ANALYSIS

A study of 20th-century approaches to tonal and non-tonal musical analysis. Emphasis on familiarity with styles, nomenclature and appropriate graphic techniques.

Prerequisite: MUS 31121.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 41181 ACOUSTICS AND TECHNOLOGY IN MUSIC

An introduction to acoustics and psychoacoustics in direct relationship to music, and an introduction to uses of technology in music composition, performance, notation, theory, history and pedagogy. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 41199 SENIOR PROJECT: MUSIC THEORY

Preparation and presentation of a senior thesis in the student's area of expertise.

Prerequisite: Permission.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Senior Project/Honors

Thesis

Department: Music

MUS 41211 COMPOSITION

Study of the materials and techniques of musical composition culminating in original works based upon observable principles of unity and variety. Prerequisite: Composition (COMP) or music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 41221 AUDIO RECORDING V

A detailed study in digital audio production techniques and procedures, including project management, final product editing and assembly, and digital audio mastering. Prerequisite: Minimum grade of C (2.0) in MUS 31222.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 41222 AUDIO RECORDING VI

A comprehensive project experience in digital audio from pre-production through the recording, mixing, mastering, assembly and post-production of a complete audio project. Prerequisite: minimum grade of C (2.0) in MUS 41221.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 41230 INTRODUCTION TO ELECTRONIC MUSIC

General introductory survey of electronic music, including its technology history and aesthetics. Use of electronic media in art, music, jazz and popular music.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 41231 TECHNIQUES OF ELECTRONIC MUSIC

Techniques of the composition of electronic music, including tape techniques and synthesizer techniques. Study oriented toward the facilities of the Kent State University electronic music studio.

Prerequisite: Music (MUS) major.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 41299 SENIOR PROJECT: MUSIC COMPOSITION

The final composition experience prior to graduation: a recital of individually composed works must be presented.

Prerequisite: MUS 41211.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Senior Project/Honors

Thesis

Department: Music

MUS 41321 ORCHESTRATION

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire. Prerequisite: MUS 21122.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 41341 JAZZ IMPROVISATION I

(Repeatable for a total of 4 credit hours) A beginner's introduction to Jazz improvisation. Theory and daily playing will be enhanced by ear training. Prerequisite: special approval.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 41342 JAZZ COMPOSING AND ARRANGING

Composing and arranging for the large and small jazz ensemble. Prerequisite: special approval.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 41351 JAZZ IMPROVISATION II

The presentation of a methodical approach to learning standard Jazz repertoire.

Prerequisite: MUS 41341 or special approval via audition.

2.000 Credit hours

1.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 42101 ROOTS OF ROCK

Roots of Rock is a comprehensive survey of the various genres of American music in the 20th century that contributed to the development of rock music. Important performers in various styles and their contributions to the art form are explored. Pioneers in the fields of recording, artist management and production are studied.



Rock music's contributions to the emergence of American culture are viewed in the context of social, racial and political changes. The impact of technological advances in radio, recording and television are also studied. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42111 AFRICAN MUSIC AND CULTURES

African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments, participation in performance and group work involvement. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42131 AMERICA'S MUSIC

Historical survey of music in America from new England psalmody to present-day compositional trends. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42141 FOLK AND TRADITIONAL MUSIC OF WESTERN CONTINENTS

Study of selected music cultures of Eastern and Western Europe, and South, Central and North America. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42151 ASIAN MUSICS

Survey of Asian music. Emphasis on art, folk and popular music and relationships of these music to their respective cultures.

Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42161 HISTORY OF JAZZ

The evolution of jazz from its origin to present. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music
Course Attributes: Diversity Course-Domestic

MUS 42171 MUSIC FROM WORLD CULTURES

Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function,

organology and technical matters of style.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42181 POPULAR WORLD MUSIC

A survey of popular world music genres from North America, the Caribbean, South America, Europe, Africa and Asia. Emphasis is on recognizing music literature, prominent artists and music styles, as well as related cultural events. Modern media, especially the Internet, is an integral component of the course.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42221 SYMPHONIC LITERATURE

Historical and stylistic survey of music for large instrumental ensemble. Prerequisite: MUS 21122.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42222 CHAMBER MUSIC LITERATURE

Historical and stylistic survey of chamber music literature. Prerequisite: MUS 21122.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42241 PIANO LITERATURE

Survey of keyboard and piano literature from the 16th century to the present ;study of related forms and styles. Emphasis on performing listening and analysis.

Prerequisite: Special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42251 SONG LITERATURE

A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.

Prerequisite: MUS 32212.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42261 OPERA LITERATURE

The historical development of opera from the 17th century to the present. Detailed analysis of representative works.

Prerequisite: MUS 32212.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42271 CHORAL LITERATURE I

Study of Western European choral literature from approximately 1450 to the early nineteenth century, i.e., Renaissance, Baroque and Classical periods.

Prerequisites: MUS 31121 and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42272 CHORAL LITERATURE II

Choral Literature II, a continuation of Choral Literature I, is a study of Western European and North American choral music of the early nineteenth century to the present (roughly 1830 to the present).

Prerequisites: MUS 31121 with a minimum grade of C (2.00); and special approval from the instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Music

MUS 42357 STUDENT TEACHING AND SEMINAR

The course provides a 15-week student teaching experience. Off campus arrangements are handled by the school of music. Prerequisite: Music education (MUED) major and special approval.

Corequisite: MUS 49525.
9.000 Credit hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Music

MUS 43211 SECONDARY INSTRUMENTAL METHODS

Secondary instrumental instruction; program organization, planning, repair, methods, choosing music materials and teaching techniques. Sixty (60) field/clinical hours required. Prerequisite: MUS 23241, 34111 and 3 credits with a C- (1.7) or better in MUS 47411 or 47511 or 47611 or 47711. Corequisite: MUS 33212.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 43231 ELEMENTARY AND MIDDLE SCHOOL INSTRUMENTAL METHOD

Elementary and middle school instrumental instruction, program organization, rehearsal/teaching techniques, lesson plans, literature, budget/scheduling, recruiting. Sixty (60) field/clinical hours required. Prerequisite: MUS 23241 and special approval.

3.000 Credit hours
3.000 Other hours



Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 43241 MARCHING BAND TECHNIQUES AND LITERATURE

Organization, administration and techniques of marching bands in the Departments. Topics covered include musical styles literature and show design. Five field clinical hours are required. Prerequisite: Permission and special approval.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab,

Combined Lec/Lab-Open Learning

Department: Music

MUS 43242 JAZZ ENSEMBLE TECHNIQUES AND LITERATURE

Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation jazz styles and rehearsal techniques taught through laboratory experience. Prerequisite: special approval.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 43243 VOCAL JAZZ AND MUSICAL THEATRE IN THE SCHOOLS

History, vocal technique, style characteristics and repertoire necessary for teaching vocal jazz and African-American spirituals. Repertoire organization and publicity for school productions of American musical theatre. Prerequisite: Music (MUS) major and junior standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 43244 STUDENT TEACHING PREPARATION

Individualized instruction to prepare music education students to student teach. Emphasis is placed on removing deficiencies or enhancing strengths prior to student teaching. Prerequisite: Special approval.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 44111 CHORAL CONDUCTING AND ARRANGING

Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure, language pronunciation and arranging for voices and instruments. Six field/ clinical hours are required. Prerequisite: MUS 34111.

3.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 44121 INSTRUMENTAL CONDUCTING AND ARRANGING

Continued development of conducting technique, score reading analysis, styles, interpretation, rehearsal procedure and arranging for instrumental organizations. Twelve field/clinical hours are required.

Prerequisite: MUS 34111.

3.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45111 UNIVERSITY CHOIR

Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment. Prerequisite: Special approval.

1.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45121 KENT CHORUS

Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment. Prerequisite: Special approval.

1.000 Credit hours

2.500 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45131 OPERA: SINGER-ACTOR TECHNIQUES

(repeated registration permitted) training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study observation and rehearsal. Prerequisite: Audition.

2.000 Credit hours

4.500 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45141 KENT STATE UNIVERSITY CHORALE

Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles with appropriate accompaniment sung in the original language. An audition is required before registering for this course.

Prerequisite: special approval.

1.000 Credit hours

4.500 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45142 MEN'S CHORUS

A chorus of male voices. Emphasis on music literacy, vocal production instruction study and performance of music written for male voices. All western music periods are represented. Experience with mixed voice choirs also occurs. Prerequisite: Permission.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45143 WOMEN'S CHORUS

A chorus of women's voices. Emphasis on music literacy, vocal production instruction study and performance of music written for women's voices. All western music periods are represented. Experience with mixed voice choirs also occurs. Prerequisite: Permission.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45151 KENT STATE UNIVERSITY GOSPEL CHOIR

Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible. Repeated registration permitted. Prerequisite: None.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45212 ORCHESTRA

A select group of instrumentalists for the purpose of studying and performing music written specifically for chamber orchestra including works of the 17th, 18th and 20th centuries. An audition is required before registering for this course. Prerequisite: special approval.

1.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45221 CONCERT BAND

(repeated registration permitted) study and performance of music literature for wind band. Prerequisite: Audition.

1.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

Course Attributes: TAG Arts/Humanities

**MUS 45222 MARCHING BAND**

(repeated registration permitted) study and performance of literature and maneuvers for marching band. Prerequisite: Audition.

1.000 Credit hours

6.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45223 WIND ENSEMBLE

A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. An audition is required before registering for this course. Prerequisite: special approval.

1.000 Credit hours

2.500 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45224 BASKETBALL BAND

(repeated registration permitted) study and performance of music for the basketball band. Prerequisite: Audition.

1.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45225 UNIVERSITY BAND

Study and performance of music literature for wind band appropriate for non-music majors, and for music education majors performing on secondary instruments. Repeated registration permitted.

Prerequisite: None.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Music

Course Attributes: TAG Arts/Humanities

MUS 45231 JAZZ ENSEMBLE

(repeated registration permitted) study and performance of music literature in the jazz idiom. Prerequisite: Audition.

1.000 Credit hours

7.500 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45241 TROMBONE ENSEMBLE

(repeated registration permitted) a thorough study of trombone performance in various sized ensembles. Emphasis on original literature from over four centuries. Prerequisite: Audition.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45251 PERCUSSION ENSEMBLE

(repeated registration permitted) a comprehensive study of percussion performance in various-sized ensembles.

Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.

Prerequisite: Audition.

1.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45261 BASSOON ENSEMBLE

(repeated registration permitted) study and performance of music for multiple bassoons; emphasis upon refined ensemble playing interpretation leadership skills and arranging techniques.

Prerequisite: Permission audition.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45271 NEW MUSIC ENSEMBLE

(repeated registration permitted) study and performance of 20th-century chamber music with an emphasis on works by contemporary composers. Prerequisite: Permission.

1.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45281 FLUTE ENSEMBLE

(repeated registration permitted) study and performance of music for multiple flutes; emphasis upon all aspects of ensemble playing and style considerations will be addressed in both chamber and conducted formats. Prerequisite: Permission audition.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45311 CHAMBER MUSIC

(repeated registration permitted) the study and performance of music for small ensembles. Prerequisite: Permission.

1.000 OR 2.000 Credit hours

2.000 OR 4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 45312 JAZZ COMBO DEVELOPMENT

(Repeatable for a total of 8 credit hours) The study of Jazz combo performance through rehearsal. Prerequisite: special approval.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Music

MUS 45321 ACCOMPANYING

(repeated registration permitted) accompanying instrumental and vocal soloists; piano ensemble works. Credit

counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly. Prerequisite: Permission.

1.000 OR 2.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46111 APPLIED MUSIC-PIANO

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.500 OR 2.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46311 APPLIED MUSIC-VOICE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46411 APPLIED MUSIC-VIOLIN

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46412 APPLIED MUSIC-VIOLA

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46413 APPLIED MUSIC-CELLO

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

**MUS 46414 APPLIED MUSIC-DOUBLE BASS**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46511 APPLIED MUSIC-FLUTE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major and special approval.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46512 APPLIED MUSIC-OBOE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major and special approval.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46513 APPLIED MUSIC-CLARINET

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major and special approval.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46514 APPLIED MUSIC-BASSOON

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major and special approval.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46515 APPLIED MUSIC-SAXOPHONE

A comprehensive study of performance, technique and repertoire appropriate to

music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major and special approval.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46611 APPLIED MUSIC-TRUMPET

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46612 APPLIED MUSIC-HORN

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46613 APPLIED MUSIC-TROMBONE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46614 APPLIED MUSIC-EUPHONIUM

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46615 APPLIED MUSIC-TUBA

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46711 APPLIED MUSIC-PERCUSSION

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 46912 APPLIED MUSIC-GUITAR

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music (MUS) or music education (MUED) major.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 47012 FOLK GUITAR CLASS I

Development of basic folk guitar performance skills. Prerequisite: None.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 47013 FOLK GUITAR CLASS II

Continued development of acoustic guitar performance skills, study of performance related theory and related topics such as open tuning and slide guitar. Prerequisite: MUS 47012.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 47014 FOLK GUITAR FOR THE MUSIC EDUCATOR

Development of basic folk guitar performance skills for music education majors. Prerequisite: Music education (MUED) major.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 47311 VOICE CLASS

Class instruction in the fundamentals of correct breathing, tone production and diction. Prerequisite: None.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

**MUS 47411 STRING CLASS**

Class lessons in basic playing skills, methodology, teaching materials and maintenance of string instruments to enable the student to teach string classes in public Departments. Prerequisite: Music (MUS) or music education (MUED) major.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 47511 WOODWIND CLASS

Study of fundamental principles of performance on woodwind instruments; methods and materials for class and private instruction. Prerequisite: Music (MUS) or music education (MUED) major.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 47611 BRASS CLASS

Study of fundamental principles of playing and teaching brass instruments. Survey of materials and method books suitable for class and private instruction. Prerequisite: Music (MUS) or music education (MUED) major.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 47711 PERCUSSION CLASS

Study of various percussion instruments (mallets, snare drum, timpani and auxiliary) and techniques of performance. Designed for music educator with no previous percussion experience. Prerequisite: Music (MUS) or music education (MUED) major.

1.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 47811 INSTRUMENT CLASS FOR THE CHORAL/GENERAL MUSIC EDUCATOR

Class instruction in the basic playing skills of band and orchestral instruments intended to provide familiarity with the common school instruments for the choral/general music major. Prerequisite: Music (MUS) or music education (MUED) major.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48111 EURHYTHMICS

Applied study of rhythm through kinesthetic, intellectual and emotional involvement. Movement experiences to strengthen concentration and communication between ear, brain and muscles that execute rhythm. Prerequisite: Music (MUS) majors.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48112 EURHYTHMICS

See MUS 48111. Prerequisite: MUS 48111.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48211 INTRODUCTION TO PIANO PEDAGOGY

Observation and teaching of individual and class lessons, children and adults. Study and performance of preparatory materials, elementary through intermediate piano literature. Prerequisite: Music (MUS) or music education (MUED) and junior standing.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48221 ELEMENTS OF ACCOMPANYING I

Techniques of accompanying; selected overview of art song literature including Italian, German, French and English songs development of playing at sight skills. Prerequisite: Special approval.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48222 ELEMENTS OF ACCOMPANYING II

Continuation of accompanying techniques including opera accompanying, orchestral reductions and selected overview of literature for solo instrument and piano; continuation of playing-at-sight skills. Prerequisite: MUS 48221.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48241 VOICE PEDAGOGY

Survey of techniques, practices and materials of teaching voice. Prerequisite: Permission.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48251 PEDAGOGY OF MUSIC THEORY

The principles and techniques of teaching music theory. Prerequisite: MUS 21122.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48257 PEDAGOGY-INSTRUMENTAL

Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice.

Offered as needed for strings woodwinds brass percussion organ, or guitar.

Prerequisite: Permission.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48393 VARIABLE TITLE WORKSHOP IN MUSIC

Offered for specific professional needs.

Emphasis on performance and pedagogical skills. S/U graded. Prerequisite: Permission.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Music

MUS 48512 IMPROVISATION

The development of musical improvisation skills not tied to any particular music style. Students will perform on their own applied instrument(s). Prerequisite: MUS 21121.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 48598 MUSIC RESEARCH

(repeated registration permitted) research or individual investigation for undergraduate students. Prerequisite: Permission.

2.000 OR 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Research

Department: Music

MUS 49525 INQUIRY INTO PROFESSIONAL PRACTICE

Instruction in band, choral general and orchestral music methods for music education majors. Focus on teacher leadership experiences and action research projects. Sixty-two field/clinical hours required. Prerequisite: Music education (MUED) major and senior standing and admission to student teaching.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Music

MUS 50295 SPECIAL TOPICS IN MUSIC

Academic study in areas not offered adequately in the music curriculum. Topic areas are of special interest to the faculty member. Prerequisite: Music (MUS) major and graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Music

MUS 50296 INDEPENDENT STUDY: MUSIC

Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses. Prerequisite: Graduate standing and music (MUS) major and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Music

MUS 51131 KEYBOARD HARMONY

Theoretical skills demonstrated at the keyboard. Harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 51141 16TH-CENTURY COUNTERPOINT

Two-, three- and four-part vocal counterpoint in 16th century style. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 51151 18TH-CENTURY COUNTERPOINT

Technique of writing counterpoint in 18th-century style especially that of J. S. Bach. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 51161 ADVANCED MUSICAL ANALYSIS

A study of 20th-century approaches to tonal and non-tonal musical analysis. Emphasis on familiarity with styles, nomenclature and appropriate graphic techniques. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 51211 COMPOSITION

Study of the materials and techniques of composition culminating in original compositions based upon observable principles of unity and variety. Repeatable credit. Prerequisite: graduate standing.

2.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 51231 TECHNIQUES OF ELECTRONIC MUSIC

Techniques of the composition of electronic music, including tape techniques and synthesizer techniques. Study oriented toward the facilities of the Kent electronic music studio. Prerequisite: Music (MUS) major and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 51321 ORCHESTRATION

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 51341 JAZZ IMPROVISATION

The development of the art of jazz improvisation through performance and analysis. Prerequisite: graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 51342 JAZZ ARRANGING

Arranging for the large and small jazz ensemble. Prerequisite: graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 52111 AFRICAN MUSIC AND CULTURES

African music as related to social sciences and humanities. Oral traditions. Use of music recordings, tapes, musical instruments. Participation in performance and group work involvement. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 52131 AMERICA'S MUSIC

Historical survey of music in America from New England psalmody to present-day compositional trends. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 52141 FOLK AND TRADITIONAL MUSIC OF WESTERN CONTINENTS

Study of selected music cultures of Eastern and Western Europe, and South, Central and North America. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 52151 ASIAN MUSICS

Survey of Asian music. Emphasis on art, folk and popular music and relationships of these music to their respective cultures. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 52161 HISTORY OF JAZZ

The evolution of jazz from its origins to the present. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 52171 MUSIC FROM WORLD CULTURES

Study of selected art, folk and popular music from world cultures with emphasis on listening skills, cultural context, function, organology and technical matters of style. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 52221 SYMPHONIC LITERATURE

Historical and stylistic survey of music for large instrumental ensemble. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 52222 CHAMBER MUSIC LITERATURE

Historical and stylistic survey of chamber music literature. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 52241 PIANO LITERATURE

Survey of keyboard and piano literature from the 16th century to the present. Study of related forms and styles. Emphasis on performing listening and analysis. Prerequisite: Special approval and graduate standing.

3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 52251 SONG LITERATURE

A study of vocal literature from the 16th century to the present. Emphasis upon the style, interpretation and presentation of solo materials for all voice classifications.
Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 52261 OPERA LITERATURE

The historical development of opera from the 17th century to the present. Detailed analysis of representative works.
Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 52271 CHORAL LITERATURE I

Study of Western European choral literature from approximately 1450 to early nineteenth century, i.e., Renaissance, Baroque, and Classical periods.
Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 52272 CHORAL LITERATURE II

Choral Literature II, a continuation of Choral Literature I, is a study of Western European and North American choral music of the early nineteenth century to the present (roughly 1830 to present). Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 53241 MARCHING BAND TECHNIQUES AND LITERATURE

Organization, administration and techniques of marching bands in the Departments. Topics covered include musical styles, literature and show design.
Prerequisite: Graduate standing and special approval.
1.000 Credit hours
1.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 53242 JAZZ ENSEMBLE TECHNIQUES

Study of the curriculum for the jazz ensemble, including organizational and administrative procedures. Emphasis on music interpretation, jazz styles and

rehearsal techniques taught through laboratory experience. Prerequisite: graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 53243 VOCAL JAZZ AND MUSICAL THEATRE IN THE SCHOOLS

Basic techniques and materials for teaching vocal jazz and musical theatre in the Departments. Administration, organization and publicity for productions as well as literature for these performing groups will be explored. Prerequisite: Graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 55111 UNIVERSITY CHOIR

Study and performance of choral music from renaissance through contemporary styles, large and small forms with appropriate accompaniment. Prerequisite: Graduate standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 55121 KENT CHORUS

Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment. Prerequisite: Graduate standing.
1.000 Credit hours
2.500 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 55131 OPERA: SINGER-ACTOR TECHNIQUES

A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas. Prerequisite: graduate standing.
2.000 Credit hours
4.500 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 55141 KENT STATE UNIVERSITY CHORALE

Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition is required before registering for this course.
Prerequisite: Special approval and graduate standing.
1.000 Credit hours
4.500 Other hours
Level: Graduate

Schedule Types: Combined Lecture/Lab
Department: Music

MUS 55142 MEN'S CHORUS

A chorus of male voices. Emphasis on music literacy, vocal production, instruction, study and performance of music written for male voices. All western music periods are represented. Experience with mixed-voice choirs also occurs. Prerequisite: graduate standing.
1.000 Credit hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Music

MUS 55143 WOMEN'S CHORUS

A chorus of women's voices. Emphasis on music literacy, vocal production, instruction, study and performance of music written for women's voices. All Western music periods are represented. Experience with mixed-voice choirs also occurs. Prerequisite: graduate standing.
1.000 Credit hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Music

MUS 55151 KENT STATE UNIVERSITY GOSPEL CHOIR

Study and performance of choral music in the gospel tradition, including works by contemporary artists. One weekly rehearsal and a minimum of one concert per semester. Off-campus concerts are possible. Prerequisite: Graduate standing.
1.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 55212 KENT STATE UNIVERSITY ORCHESTRA

A select group of instrumentalists for the purpose of studying and performing music written specifically for chamber orchestra including works of the 17th, 18th and 20th centuries. An audition is required before registering for this course. Prerequisite: Special approval and graduate standing.
1.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 55221 CONCERT BAND

Study and performance of music literature for wind band. Prerequisite: graduate standing.
1.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 55222 MARCHING BAND

Study and performance of literature and maneuvers for marching band. Repeatable



up to 6 hours. Prerequisite: graduate standing.

1.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 55223 WIND ENSEMBLE

A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. An audition is required before registering for this course. Prerequisite: Special approval and graduate standing.

1.000 Credit hours

2.500 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 55231 JAZZ ENSEMBLE

Study and performance of music literature in the jazz idiom. Prerequisite: graduate standing.

1.000 Credit hours

7.500 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 55241 TROMBONE ENSEMBLE

A thorough study of trombone performance in various size ensembles. Emphasis on original literature from over four centuries. Prerequisite: graduate standing.

1.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 55251 PERCUSSION ENSEMBLE

A comprehensive study of percussion performance in various size ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature. Prerequisite: graduate standing.

1.000 Credit hours

5.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 55261 BASSOON ENSEMBLE

Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques. Repeated registration permitted. Prerequisite: graduate standing.

1.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 55271 NEW MUSIC ENSEMBLE

Study and performance of 20th-century chamber music with an emphasis on works by contemporary composers. Repeatable credit. Prerequisite: graduate standing.

1.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 55281 FLUTE ENSEMBLE

Study and performance of music for multiple flutes; emphasis upon all aspects of ensemble playing and style considerations will be addressed in both chamber and conducted formats. Repeated registration permitted. Prerequisite: graduate standing.

1.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 55311 CHAMBER MUSIC

The study and performance of music for small ensembles. Prerequisite: graduate standing.

1.000 OR 2.000 Credit hours

2.000 OR 4.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Music

MUS 55321 ACCOMPANYING

Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly. May be repeated. Prerequisite: graduate standing.

1.000 OR 2.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 58111 EURHYTHMICS

Applied study of rhythm through kinesthetic, intellectual and emotional involvement. Movement experiences to strengthen concentration and communication among ear, brain and muscles that execute rhythm. Prerequisite: graduate standing.

1.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 58112 EURHYTHMICS

A continuation of MUS 58111. Prerequisite: MUS 58111 and graduate standing.

1.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 58221 ELEMENTS OF ACCOMPANYING I

Techniques of accompanying; selected overview of art song literature including Italian, German, French and English songs development of playing at sight skills. Prerequisite: graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 58222 ELEMENTS OF ACCOMPANYING II

Continuation of accompanying techniques including opera accompanying, orchestral reductions and selected overview of literature for solo instrument and piano continuation of playing-at-sight skills.

Prerequisite: graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 58241 VOICE PEDAGOGY

Survey of techniques, practices and materials of teaching voice. Prerequisite: graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 58251 PEDAGOGY OF MUSIC THEORY

The principles and techniques of teaching music theory. Prerequisite: Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 58257 PEDAGOGY- INSTRUMENTAL

Principles and techniques of instruction. Literature survey. Analysis of instrumental problems and performance practice. Offered as needed for strings, woodwinds, brass, percussion, organ or guitar.

Prerequisite: graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 58393 VARIABLE TITLE WORKSHOP IN MUSIC

Offered for specific professional needs.

Emphasis on performance and pedagogical skills. Prerequisite: graduate standing.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Music

MUS 61131 SCHENKERIAN ANALYSIS

An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

**MUS 61171 ANALYTICAL TECHNIQUES I**

The application of standard analytical techniques to works of various style periods. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 61172 ANALYTICAL TECHNIQUES II

The application of standard analytical techniques to works of various style periods. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 61211 COMPOSITION

Original composition using longer forms of music for diverse media including multimedia and electronic composition. Repeatable credit. Prerequisite: graduate standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 61331 BAND ARRANGING

Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band. Prerequisite: MUS 51331 and graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 62227 HISTORY AND LITERATURE OF THE WIND BAND

Historical survey of wind band literature and the development of the ensemble. Prerequisite: graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 62281 SEMINAR IN MUSIC HISTORY AND LITERATURE

Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion. Repeatable credit. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 62412 INTRODUCTION TO ETHNOMUSICOLOGY

A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription, analysis and bibliography. Prerequisite: MUS 52111 or

MUS 52141 or MUS 52151 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 62413 ADVANCED FIELD AND LAB METHODS IN ETHNOMUSICOLOGY

Development of professional level research skills in all media of field documentation, transcription, analysis and scholarly writing. Study of current related issues in ethnomusicology. Prerequisite: MUS 62412.
3.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Music

MUS 62451 INTRODUCTION TO MUSICOLOGY

Techniques of music research and creative musical writing including special projects, reports and readings. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 62511 MUSIC HISTORY I

A study of Western music history and its place in the medieval world to the beginning of the 16th century (ca. 1520). Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 62521 MUSIC HISTORY II

A study of Western music history and its place in the cultural milieu of the late Renaissance and Baroque eras. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 62531 MUSIC HISTORY III

A study of Western music during the classical period and the classic tradition to the end of the 19th century. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 62541 MUSIC HISTORY IV

A study of romantically inclined composers to the end of the 19th century and major trends, techniques and composers since 1900. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 62601 SEMINAR IN MUSICS OF AFRICA

Specialized investigations of music cultures of Africa. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 62602 SEMINAR IN MUSICS OF THE AMERICAS

Specialized investigation of music cultures of the Americas. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 62603 SEMINAR IN MUSICS OF THE MIDDLE EAST

Specialized investigation of music cultures of the Middle East. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 62604 SEMINAR IN MUSICS OF EAST ASIA

Specialized investigation of music cultures of East Asia. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 62605 SEMINAR IN MUSICS OF SOUTH ASIA

Specialized investigation of music cultures of South Asia. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 62606 SEMINAR IN MUSICS OF SOUTHEAST ASIA

Specialized investigation of music cultures in Southeast Asia. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 63198 CAPSTONE PROJECT

Working under the supervision of a capstone advisor, students demonstrate synthesis of knowledge through the development of curricular project applicable



to student's area of teaching. Prerequisite: graduate standing.

3.000 OR 6.000 Credit hours

3.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Music

MUS 63241 INQUIRY IN MUSIC TEACHING I

Conducting and presenting assessment, evaluation, and research of music teaching and learning with emphasis on quantitative methodologies. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63242 INQUIRY IN MUSIC TEACHING AND LEARNING II

Conducting and presenting assessment, evaluation and research of music teaching and learning with emphasis on qualitative methodologies. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63261 ADVANCED STUDIES IN TEACHING CHORAL MUSIC

Development of teaching materials, an annotated choral repertory list and instructional strategies for choral music with emphasis on rehearsal procedures and analytical techniques. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63262 ADVANCED STUDIES IN TEACHING INSTRUMENTAL MUSIC

Development of teaching materials, an annotated instrumental repertory list and instructional strategies for instrumental music with emphasis on rehearsal procedures and analytical techniques. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63263 ADVANCED STUDIES IN TEACHING GENERAL MUSIC

Program development, inclusion, instructional materials and innovative teaching techniques for general music programs. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63271 MEASUREMENT AND EVALUATION IN MUSIC

Study of measurement and evaluation techniques for music aptitude, achievement and preference. Emphasis on developing teacher made tests and on available standardized music tests. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63272 LEARNING THEORIES IN MUSIC

Application of current theories of learning to the teaching and learning of music.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63273 PSYCHOLOGY OF MUSIC

The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63274 FOUNDATIONS OF MUSIC EDUCATION

Study of the field of music education from perspectives of sociology, psychology, philosophy, curriculum, history and comparative curricula. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63283 RESEARCH IN MUSIC EDUCATION

Introduction to research techniques in music education including topic selection, data collection analysis and interpretation, and presentation of information in written form. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63284 HISTORY OF MUSIC EDUCATION

Study of historical approaches to music education with emphasis on significant people, places and events that have influenced music teaching and learning music. Prerequisite: MUS 63274 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63285 PHILOSOPHY OF MUSIC EDUCATION

Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music. Prerequisite: MUS 63274 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 63311 DALCROZE TECHNIQUES IN MUSIC EDUCATION

Dalcroze principles of eurhythmics, ear training and keyboard improvisation as applied to teaching music in Departments. Emphasis on teaching young children. Development of teaching skills.

Prerequisite: MUS 58111 and graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 64111 CONDUCTING PROJECTS: CHORAL

Choral conducting techniques, score analysis, rehearsal procedures and study of musical style. Repeatable credit.

Prerequisite: graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson

Department: Music

MUS 64121 CONDUCTING PROJECTS: BAND

Band conducting techniques, score analysis rehearsal procedures and study of musical style. Repeatable credit. Prerequisite: graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson

Department: Music

MUS 64131 CONDUCTING PROJECTS: ORCHESTRA

Orchestra conducting techniques, score analysis, rehearsal procedures and study of musical style. Repeatable credit. Prerequisite: graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson

Department: Music

MUS 66111 APPLIED MUSIC-GRADUATE PIANO

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into



this course. Prerequisites: Music major and graduate standing.

2.000 OR 4.000 Credit hours

1.500 OR 2.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66112 APPLIED MUSIC-GRADUATE PIANO ACCOMPANYING

Prerequisite: graduate standing.

4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66191 SEMINAR IN ACCOMPANYING

Studio performances of standard repertoire for piano and voice or instruments;

investigation of other topics relating to the accompanying of the repertoire. This course may be repeated for credit.

Prerequisite: graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Music

MUS 66311 APPLIED MUSIC-GRADUATE VOICE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music major and special approval. Graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

All Sections for this Course

Department: Music

MUS 66411 APPLIED MUSIC-GRADUATE VIOLIN

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music major and special approval. Graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66412 APPLIED MUSIC-GRADUATE VIOLA

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66413 APPLIED MUSIC-GRADUATE CELLO

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66414 APPLIED MUSIC-GRADUATE DOUBLE BASS

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music major and special approval. Graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66511 APPLIED MUSIC-GRADUATE FLUTE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66512 APPLIED MUSIC-GRADUATE OBOE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66513 APPLIED MUSIC-GRADUATE CLARINET

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66514 APPLIED MUSIC-GRADUATE BASSOON

A comprehensive study of performance, technique and repertoire appropriate to

music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66515 APPLIED MUSIC-GRADUATE SAXOPHONE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66611 APPLIED MUSIC-GRADUATE TRUMPET

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66612 APPLIED MUSIC-GRADUATE HORN

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66613 APPLIED MUSIC-GRADUATE TROMBONE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66614 APPLIED MUSIC-GRADUATE EUPHONIUM

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.



2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66615 APPLIED MUSIC-GRADUATE TUBA

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66711 APPLIED MUSIC-GRADUATE PERCUSSION

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 66912 APPLIED MUSIC-GRADUATE GUITAR

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and graduate standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 67243 TECHNOLOGY FOR MUSIC TEACHING

Study of a variety of music software and hardware; students design and implement a project pertaining to their professional interest. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 68199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Music

MUS 68214 PIANO PEDAGOGY AND MATERIALS I

Teaching techniques and materials for the studio teacher including approach to philosophy of teaching, lesson structure and current innovations. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 68215 PIANO PEDAGOGY AND MATERIALS II

Teaching techniques and materials for the studio teacher; analysis of specific teaching problems including the teaching of 20th century music. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 68294 COLLEGE TEACHING OF MUSIC

Study of administrative structure, faculty role, pedagogy, content and evaluation relating to the college music curriculum. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 68299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: MUS 68199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Music

MUS 68598 RESEARCH

Research or individual investigation for master's level graduate students.

Prerequisite: Graduate standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Music

MUS 68687 RECITAL

Required of all performance majors and music education majors who choose performance option. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Music

MUS 68698 ESSAY

Required of performance majors and music education majors who choose the recital

and essay option. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Music

MUS 71121 EVOLUTION OF MUSIC THEORY

A systematic study of significant theoretical speculation as proposed in the writings of Western theorists, ca. 500 to the present. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 71131 SCHENKERIAN ANALYSIS

An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 71141 16TH-CENTURY COUNTERPOINT

Two-, three- and four-part vocal counterpoint in 16th century style. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 71151 18TH-CENTURY COUNTERPOINT

Technique of writing counterpoint in 18th-century style especially that of J. S. Bach. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 71171 ANALYTICAL TECHNIQUES I

The application of standard analytical techniques to works of various style periods. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 71172 ANALYTICAL TECHNIQUES II

The application of standard analytical techniques to works of various style periods. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music



MUS 71191 SEMINAR IN 20TH-CENTURY MUSIC AND TECHNIQUES

Detailed class analysis of scores using specified styles and techniques; individual projects in areas of particular interest to the student. Repeatable to 6 hours credit. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 71195 SPECIAL PROJECTS IN THEORETICAL STUDIES

Individual and class investigation into specific methods of analysis and their application to music in various styles. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 71231 TECHNIQUES OF ELECTRONIC MUSIC

Techniques of the composition of electronic music, including tape techniques and synthesizer techniques. Study oriented toward the facilities of the Kent electronic music studio. Prerequisite: Music (MUS) major and doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 71241 ELECTRONIC MUSIC COMPOSITION

Original composition using tape recorders and analog synthesizers. Repeatable to 8 hours credit. Prerequisite: Doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 71331 BAND ARRANGING

Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band. Prerequisite: MUS 51331 and doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72211 NOTATION I

Study and transcription of white mensural notation (ca. 1450 1600) and the various types of keyboard and lute tablatures. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72212 NOTATION II

Study of the notation of medieval polyphonic music from the earliest forms of organum through end of the 14th century. Prerequisite: MUS 72211 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72227 HISTORY AND LITERATURE OF THE WIND BAND

Historical survey of wind band literature and the development of the ensemble. Prerequisite: doctoral standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72281 SEMINAR IN MUSIC HISTORY AND LITERATURE

Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion. Repeatable credit. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 72412 INTRODUCTION TO ETHNOMUSICOLOGY

A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription analysis and bibliography. Prerequisite: MUS 52111 or MUS 52141 or MUS 52151 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72413 ADVANCED FIELD AND LAB METHODS IN ETHNOMUSICOLOGY

Development of professional level research skills in all media of field documentation, transcription analysis and scholarly writing. Study of current related issues in ethnomusicology. Prerequisite: MUS 62412 and doctoral standing.
3.000 Credit hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory
Department: Music

MUS 72451 INTRODUCTION TO MUSICOLOGY

Techniques of music research and creative musical writing including special projects, reports and readings. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72511 MUSIC HISTORY I

A study of Western music history and its place in the medieval world to the beginning of the 16th century (ca. 1520). Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72521 MUSIC HISTORY II

A study of western music history and its place in the cultural milieu of the late Renaissance and Baroque eras. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72531 MUSIC HISTORY III

A study of Western music during the classical period and the classic tradition to the end of the 19th century. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72541 MUSIC HISTORY IV

A study of romantically inclined composers to the end of the 19th century and major trends, techniques and composers since 1900. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Music

MUS 72601 SEMINAR IN MUSICS OF AFRICA

Specialized investigations of music cultures of Africa. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 72602 SEMINAR IN MUSICS OF THE AMERICAS

Specialized investigation of music cultures of the Americas. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 72603 SEMINAR IN MUSICS OF THE MIDDLE EAST

Specialized investigation of music cultures of the Middle East. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar



Department: Music

MUS 72604 SEMINAR IN MUSICS OF EAST ASIA

Specialized investigation of music cultures of East Asia. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Music

MUS 72605 SEMINAR IN MUSICS OF SOUTH ASIA

Specialized investigation of music cultures of South Asia. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 72606 SEMINAR IN MUSICS OF SOUTHEAST ASIA

Specialized investigation of music cultures in Southeast Asia. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Music

MUS 72691 SEMINAR IN ETHNOMUSICOLOGY

Specialized topics in ethnomusicology for advanced students. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Music

MUS 73261 ADVANCED STUDIES IN SECONDARY CHORAL AND GENERAL MUSIC

Review curriculum in secondary general music and development of innovative teaching materials and strategies.

Analytical techniques, rehearsal

procedures, repertory suitable for

secondary school choral ensembles.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73262 ADVANCED STUDIES IN INSTRUMENTAL MUSIC

Study of curriculum, method techniques and materials in school instrumental music education. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73263 ADVANCED STUDIES IN GENERAL MUSIC FOR CHILDREN

Study of trends in philosophy, curriculum and program development, instructional materials and innovative teaching techniques for elementary school and early childhood general music. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73271 MEASUREMENT AND EVALUATION IN MUSIC

Study of measurement and evaluation techniques for music aptitude, achievement and preference. Emphasis on developing teacher made tests and on available standardized music tests. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73272 LEARNING THEORIES IN MUSIC

Application of current theories of learning to the teaching and learning of music.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73273 PSYCHOLOGY OF MUSIC

The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73274 FOUNDATIONS OF MUSIC EDUCATION

Study of the influences on the field of music education, including sociology, psychology, philosophy, curriculum and history.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73283 RESEARCH IN MUSIC EDUCATION

Introduction to research techniques in music education including topic selection, data collection analysis and interpretation and presentation of information in written form. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73284 HISTORY OF MUSIC EDUCATION

Study of historical approaches to music education with emphasis on significant people, places and events that have influenced teaching and learning music. Prerequisite: MUS 73274 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73285 PHILOSOPHY OF MUSIC EDUCATION

Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music. Prerequisite: MUS 63274 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73295 SPECIAL TOPICS IN MUSIC EDUCATION

Advanced study in selected topics that will vary from semester to semester depending on needs and interests of students.

Repeated registration permitted.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Music

MUS 73311 DALCROZE TECHNIQUES IN MUSIC EDUCATION

Dalcroze principles of eurhythmics, ear training and keyboard improvisation as applied to teaching music in Departments. Emphasis on teaching young children.

Development of teaching skills.

Prerequisite: MUS 58111 and doctoral standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 73381 ADVANCED RESEARCH IN MUSIC EDUCATION

The design, implementation and reporting of research studies that illustrate a variety of methodological and statistical plans for research in music education. Prerequisite: MUS 673283 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music



MUS 74111 CONDUCTING PROJECTS: CHORAL

Choral conducting techniques, score analysis, rehearsal procedures and study of musical style. Repeatable credit.
Prerequisite: doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson
Department: Music

MUS 74121 CONDUCTING PROJECTS: BAND

Band conducting techniques, score analysis, rehearsal procedures and study of musical style. Repeatable credit.
Prerequisite: doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson
Department: Music

MUS 74131 CONDUCTING PROJECTS: ORCHESTRA

Orchestra conducting techniques, score analysis rehearsal procedures and study of musical style. Repeatable credit.
Prerequisite: doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson
Department: Music

MUS 75131 OPERA: SINGER-ACTOR TECHNIQUES

A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas. Prerequisite: doctoral standing.
2.000 Credit hours
4.500 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 75141 KENT STATE UNIVERSITY CHORALE

Study and performance of literature for vocal chamber ensemble from medieval through contemporary styles sung in the original language with appropriate accompaniment. An audition is required before registering for this course.
Prerequisite: Special approval and doctoral standing.
1.000 Credit hours
4.500 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 75212 KENT STATE UNIVERSITY ORCHESTRA

A select group of instrumentalists for the purpose of studying and performing music written specifically for chamber orchestra including works of the 17th, 18th and 20th centuries. An audition is required before registering for this course. Prerequisite: Special approval and doctoral standing.

1.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 75223 WIND ENSEMBLE

A select concert ensemble that performs the finest in wind instrument literature with emphasis on major original works. An audition is required before registering for this course. Prerequisite: Special approval and doctoral standing.
1.000 Credit hours
2.500 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 75231 JAZZ ENSEMBLE

Study and performance of music literature in the jazz idiom. Prerequisite: doctoral standing.
1.000 Credit hours
7.500 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 75271 NEW MUSIC ENSEMBLE

Study and performance of 20th-century chamber music with an emphasis on works by contemporary composers. Repeatable credit. Prerequisite: doctoral standing.
1.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 75311 CHAMBER MUSIC

The study and performance of music for small ensembles. Prerequisite: doctoral standing.
1.000 OR 2.000 Credit hours
2.000 OR 4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Music

MUS 76111 APPLIED MUSIC-GRADUATE PIANO

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 76311 APPLIED MUSIC-GRADUATE VOICE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music major and special approval. Doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours

Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 76411 APPLIED MUSIC-GRADUATE VIOLIN

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music major and special approval. Doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 76412 APPLIED MUSIC-GRADUATE VIOLA

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 76413 APPLIED MUSIC-GRADUATE CELLO

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 76414 APPLIED MUSIC-GRADUATE DOUBLE BASS

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music major and special approval. Doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 76511 APPLIED MUSIC-GRADUATE FLUTE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.
2.000 OR 4.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

**MUS 76512 APPLIED MUSIC-GRADUATE OBOE**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76513 APPLIED MUSIC-GRADUATE CLARINET

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76514 APPLIED MUSIC-GRADUATE BASSOON

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisite: Music major and special approval. Doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76515 APPLIED MUSIC-GRADUATE SAXOPHONE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76611 APPLIED MUSIC-GRADUATE TRUMPET

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76612 APPLIED MUSIC-GRADUATE HORN

A comprehensive study of performance, technique and repertoire appropriate to

music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76613 APPLIED MUSIC-GRADUATE TROMBONE

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76614 APPLIED MUSIC-GRADUATE EUPHONIUM

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76615 APPLIED MUSIC-GRADUATE TUBA

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76711 APPLIED MUSIC-GRADUATE PERCUSSION

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 76912 APPLIED MUSIC-GRADUATE GUITAR

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Students must audition to be accepted into this course. Prerequisites: music major and doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Private Lesson, Studio

Department: Music

MUS 78214 PIANO PEDAGOGY AND MATERIALS I

Teaching techniques and materials for the studio teacher including approach to philosophy of teaching, lesson structure and current innovations. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 78215 PIANO PEDAGOGY AND MATERIALS II

Teaching techniques and materials for the studio teacher; analysis of specific teaching problems including the teaching of 20th century music. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 78294 COLLEGE TEACHING OF MUSIC

Study of administrative structure, faculty role, pedagogy, content and evaluation relating to the college music curriculum. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Music

MUS 78393 VARIABLE TITLE WORKSHOP IN MUSIC

Offered for specific professional needs. Emphasis on performance and pedagogical skills. Prerequisite: doctoral standing.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Music

MUS 81196 INDIVIDUAL INVESTIGATION IN MUSIC THEORY

Intensive research or readings on selected topic beyond normal course coverage. Repeated registration permitted.

Prerequisite: Doctoral standing.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Music

MUS 81211 COMPOSITION

Refinement of compositional techniques culminating in large-scale works for media of student's choice. Repeatable credit. Prerequisite: Doctoral standing.

2.000 OR 4.000 Credit hours

1.000 Other hours



Level: Graduate
Schedule Types: Private Lesson, Studio
Department: Music

MUS 82291 SEMINAR IN MUSICOLOGY

Examination into primary sources, treatises and writings in selected areas in Western music. Topics selected range from medieval period to present. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 82396 INDIVIDUAL INVESTIGATION IN MUSICOLOGY

Intensive research or readings on selected topic beyond normal course coverage. Repeated registration permitted. Prerequisite: Doctoral standing and special approval.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Music

MUS 82696 INDIVIDUAL INVESTIGATION IN ETHNOMUSICOLOGY

Intensive research or readings on selected topic beyond normal course coverage. Repeated registration permitted. Prerequisite: doctoral standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Music

MUS 83196 INDIVIDUAL INVESTIGATION IN MUSIC EDUCATION

Intensive research or readings on selected topic beyond normal course coverage. Repeated registration permitted. Prerequisite: doctoral standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Music

MUS 83211 SEMINAR IN TEACHER EDUCATION IN MUSIC

Investigation of the role of curriculum, accreditation and certification in music teacher education. Procedures related to teaching methods courses and to the student teaching program. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Music

MUS 88199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Pass

candidacy examination and doctoral standing.

15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Music

MUS 88299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisites: MUS 88199 and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Music

MUS 88598 RESEARCH

Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Prerequisite: Doctoral standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Music

Nursing Technology (NRST)

NRST 10001 FOUNDATIONS OF NURSING AGENCY

Development of basic nursing skills and physical assessment. The student will begin implementation of the nursing process using universal self-care requisites as an organizational framework. Prerequisite: Nursing technology (NRST) major.
5.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
0.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Laboratory, Lecture
Department: Regional College

NRST 10002 INTRODUCTION TO NURSING PROCESS

Orem's theory is used as the organizing framework. The nursing care plan format using the nursing process is presented. Prerequisite: Nursing technology (NRST) major.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

NRST 10003 NURSING AGENCY I

Emphasizes broad concepts common to nursing practice. Increasingly complex skills are introduced. Care focuses on simple therapeutic self-care demands. Prerequisites: minimum grade of C (2.0) in BSCI 20020; and CHEM 10054 or (CHEM 10050 and CHEM 10052); and NRST 10001; and US 10097; and minimum

cumulative GPA of 2.0; and nursing technology (NRST) major.

6.000 Credit hours
4.000 Lecture hours
3.000 Lab hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Combined Lecture/Lab
Department: Regional College

NRST 10004 OLDER ADULT DEVELOPMENTAL SELF-CARE

Age related and pathological changes of aging. Includes nursing care approaches for older patients with health deviations. Prerequisite: Admission to the nursing program (NRST) and cumulative GPA of 2.0 or higher.
2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

NRST 10005 THERAPEUTIC USE OF SELF

Focus is on the self-care of individuals with emphasis on understanding human relationships in the promotion of self-care. Culture values and past experiences as factors in communication are explored. Prerequisites: minimum grade of C (2.0) in BSCI 20020; and CHEM 10054 or CHEM 10050 and 10052; and NRST 10001 and 10002; and minimum cumulative GPA of 2.0; and nursing technology (NRST) major.
2.000 Credit hours
1.000 Lecture hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Laboratory, Lecture
Department: Regional College

NRST 10006 TRANSITIONS IN NURSING AGENCY

Course is designed for the LPN's advanced placement to the nursing program. It includes content areas from all first year nursing courses and will have both a theory and a campus lab. Orem's theory is introduced emphasizing the assessment of the client's self-care assets and self-care deficits. Prerequisites: BSCI 20020; and CHEM 10054 or CHEM 10050 and 10052; all with a minimum grade of C (2.0) and cumulative GPA of 2.7 or higher; nursing technology (NRST) majors; and special approval from the nursing director.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

NRST 10007 LPN TO ADN BRIDGE COURSE

Course includes content areas from first-year nursing courses not covered in the Statewide Articulation Model (NRST 10006 Transitions in Nursing). Prerequisites: nursing technology (NRST) or pre-nursing (PADN) major and special approval of the ADN director.



2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

NRST 10008 PARAMEDIC TO ASSOCIATE DEGREE IN NURSING TRANSITION

Serves to validate prior learning, update and enhance the student's knowledge, begin the process of role transition, and prepare the student for advanced placement into the ADN program. Prerequisites: BSCI 20020; and CHEM 10054 or CHEM 10050 and 10052; all with a minimum grade of "C"; cumulative GPS of 2.7 or higher; nursing technology (NRST) major; and special approval of the nursing director.
5.000 Credit hours
3.500 Lecture hours
1.500 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Regional College

NRST 20206 NURSING AGENCY II

Nursing care of adults with intermediate therapeutic self-care demands. Emphasis is placed on the nurse as a provider of care. Prerequisite: a minimum grade of C (2.0) in all of the following: NRST 10003; and BSCI 20021 and BSCI 20022; and PSYC 11762; and NUTR 33512; and a cumulative GPA of 2.0 or better; and nursing technology (NRST) majors.
5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Laboratory, Lecture
All Sections for this Course
Department: Regional College

NRST 20207 PSYCHOSOCIAL SELF-CARE DEFICITS

Focus is on providing mental health nursing care utilizing the nursing process for the emotionally ill client, family, and community with psychiatric mental health needs. Emphasis is placed on understanding holistic human needs and promotion of the professional therapeutic nurse-client relationships. Prerequisite: A minimum grade of C (2.0) in all of the following: NRST 10003; BSCI 20021; BSCI 20022; PSYC 11762; NUTR 33512; and a minimum cumulative GPA 2.0; and nursing technology (NRST) major.
4.000 Credit hours
3.000 Lecture hours
0.333 Lab hours
2.667 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Regional College

NRST 20208 NURSING AGENCY III

Nursing care of individuals with complex therapeutic self-care demands. Emphasis is placed on the nurse as provider and manager of patient care. Prerequisite: minimum grade of C (2.0) in NRST 20206 and 20207; and NURS 20950; and ENG

11011 or HONR 10197; and minimum 2.0 cumulative GPA; and nursing (NRST) major.
6.000 Credit hours
3.000 Lecture hours
9.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Laboratory, Lecture
Department: Regional College

NRST 20209 MATERNAL/NEWBORN DEVELOPMENT SELF-CARE

Nursing care of the expectant and newly-delivered family. The nursing approach acknowledges the mother's self-care abilities and dependent care agent role. Health deviations related to childbearing are incorporated. Prerequisites: NRST 10003; and BSCI 20021 and 20022; and PSYC 11762; and NUTR 33512; and NURS 20950; and cumulative GPA of 2.0 or higher. Nursing technology (NRST) majors.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Laboratory, Lecture
All Sections for this Course
Department: Regional College

NRST 20210 CHILD AND FAMILY DEVELOPMENT SELF-CARE

Family-centered nursing care of children. Developmental self-care requisites and common health deviations are emphasized. Prerequisites: minimum grade of C (2.0) in all of the following: NRST 20206 and NRST 20207; and NURS 20950; and ENG 11011 or HONR 10197; and minimum cumulative 2.0 GPA.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Combined Lecture/Lab
Department: Regional College

NRST 20211 CONTEMPORARY NURSING ISSUES

Major social, economic and educational trends are studied. The focus is on the role of the associate degree nurse as a member of the profession. Prerequisite: NRST 20206 and 20207; and NURS 20950; and ENG 11011 or HONR 10197; cumulative GPA of 2.0 or higher. Nursing technology (NRST) majors.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

NRST 21095 SPECIAL TOPICS

Scheduled topic of interest to students and faculty. Prerequisite: None.
2.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

NRST 21096 INDIVIDUAL INVESTIGATION IN NURSING

(repeatable for a total of 18 hours) readings and/or investigation of nursing topics supervised by nursing faculty. Prerequisite: Permission of director.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

National Student Exchange (NSE)

NSE 10095 NATIONAL STUDENT EXCHANGE

This is not a real academic course but a means of holding out of state students awaiting their transfer back to Kent. For record keeping only.
0.000 TO 20.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Undergraduate Studies
Course Attributes: Joint Program/ Consortia Agreement

Nursing (NURS)

NURS 10050 INTRODUCTION TO PROFESSIONAL NURSING

Focus on nursing's development as a discipline and profession. The scope of nursing practice and the health care delivery system are discussed. Prerequisite: None.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 20010 INTERPERSONAL AND COMMUNICATION SKILLS FOR HEALTH CARE PROFESSIONALS

A skill-development course, with readings, experiential learning activities and oral and written communication assignments. It is designed to help students enhance their self-confidence in interacting with other people, individually or in groups, and develop their capabilities in writing, leading groups and presenting information. Assertiveness techniques, presentation of self, critical thinking and collaboration skills complement the development of interpersonal and communication competencies. Active learning methods are used to facilitate growth at any level of current student development. Prerequisite: nursing (NURS) major and sophomore standing.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing



NURS 20020 FOUNDATIONS OF ASSESSMENT AND COMMUNICATION IN NURSING

Individuals are assessed as members of families and community members. Communication in nursing is explored. Prerequisite: Special approval.
3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Nursing

NURS 20030 FOUNDATIONS OF NURSING INTERVENTIONS

Foundations of nursing interventions focuses on selected aspects of nursing care to improve the health of individuals within families and groups. Utilizes principles of the interpersonal process, nursing process and professional nursing. Prerequisite: NURS 20010 and NURS 20020 and NURS 20950 and BSCI 30030 with a grade of C (2.0) or better.
5.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Clinic, Laboratory, Lecture
Department: Nursing

NURS 20160 NURSING PROCESS

Concepts of nursing process/process recording are taught with emphasis on those processes as used at Kent State University College of Nursing. Philosophies of nursing are discussed. Prerequisite: Sophomore standing and nursing (NURS) major and special approval.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 20950 HUMAN GROWTH AND DEVELOPMENT FOR HEALTH PROFESSIONALS

Examines theoretical principles and concepts of human growth and development throughout the life cycle applicable to personal and professional activities essential to the accurate assessment of human needs and understanding human behaviors. Prerequisite: PSYC 11762 and sophomore standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 21095 SPECIAL TOPICS IN NURSING

Scheduled topics of interest to faculty and students. Prerequisite: Sophomore standing.
2.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 21096 INDIVIDUAL INVESTIGATION NURS

Designed for the student interested in exploration and research of material not covered in required nursing courses. Prerequisite: Sophomore standing and special approval.
2.000 TO 4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Nursing

NURS 25010 INTRODUCTION TO ACCELERATED NURSING

Focus is on nursing's development as a discipline and a profession. Students use group process in developing the necessary oral and written communication skills needed for practicing nurses. Provides students the tools to succeed in an accelerated BSN program. Topics covered include time management, study skills, test taking strategies, critical thinking and self care. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 25020 INTRODUCTION TO PROFESSIONAL NURSING AND INTERPERSONAL AND COMMUNICATION SKILLS: LPN TRANSITION

Required for all LPN transition nursing undergraduate students. Focus is on the development of nursing as a discipline and as a profession. Also a skill development course, with readings, experiential learning activities, and oral and written communication assignments. Designed to help students enhance their self-confidence in interacting with others, groups and presenting information. Assertiveness techniques, presentation of self, critical thinking, and collaboration skills complement the development of interpersonal and communication competencies. Active learning methods are used. Prerequisite: nursing (NURS) major; and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 25030 LPN 20020 PREPARATION COURSE-FOUNDATIONS OF NURSING PRACTICE AND COMMUNICATION

Designed to assist the licensed practical nurse who is enrolled in the KSU Baccalaureate Nursing (BSN) Program of study. Reviews the nursing concepts of the professional nurse for LPNs in preparation for taking the CLEP exam before they transition into the BSN nursing curriculum. Content includes therapeutic and interpersonal communication, critical thinking and concept mapping, the nursing process, evidence-based practice, and client education. Offered in a hybrid format

with students having in-class, multipurpose lab, as well as web-based assignments. Students have the option of practice in the lab and perform physical assessment skills. Prerequisite: nursing (NURS) major.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 25040 LPN 20030 PREPARATION COURSE-FOUNDATIONS OF NURSING INTERVENTIONS

Designed to assist the licensed practical nurse enrolled in the KSU Baccalaureate Nursing (BSN) Program of study. The specific content includes: health, wellness, safety and mobility issues; infection control; care of the surgical client; electrolyte and acid-base imbalances; and sensory, sleep and cognition issues. Students have optional practice in the nursing lab and perform selected nursing skills, including physical assessment and medication calculations. Prerequisite: nursing (NURS) major and special approval.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 30010 PARENT AND NEWBORN NURSING

A study of nursing assessment, need identification and evaluation for individuals and families during the child bearing cycle. Prerequisites: NURS 20030 and NURS 20950 and BSCI 30030 with minimum C (2.0) grade. Corequisite: NURS 30020.
4.000 Credit hours
2.000 Lecture hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 30020 HEALTH CARE OF CHILDREN

Nursing process in family-centered care of children including health and developmental promotion and illness and restorative intervention. Prerequisites: NURS 20020 and NURS 20030 and BSCI 30030 with minimum C (2.0) grade. Corequisite: NURS 30010.
4.000 Credit hours
2.000 Lecture hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 30030 NURSING OF ADULTS

Emphasizes health promotion and prevention of episodic illness and maintenance of health status. Utilizes nursing process as foundation to provide nursing care composed of clinical experience in acute care settings. Prerequisites: NURS 20030 and NURS 20950 and BSCI 30030 with minimum C (2.0) grade. Corequisite: NURS 30040.



5.000 Credit hours
2.500 Lecture hours
7.500 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 30040 NURSING OF ADULTS WITH REHAB NEEDS AND/OR GERONTOLOGIC CHANGES

This course encompasses care of persons and families dealing with gerontologic changes and/or rehabilitation needs. Prerequisites: NURS 20030 and NURS 20950 and BSCI 30030 with minimum C (2.0) grade. Corequisite: NURS 30030. 4.000 Credit hours
1.000 Lecture hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 30050 BASIC NURSING INFORMATICS

Focuses on the use of nursing informatics for clinical nursing practice, inquiry and communication. Prerequisite: NURS 20020 with a grade of C (2.0) or better. 2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 30060 BASIC PHARMACOLOGY FOR NURSING PRACTICE

Introduction to general principles of pharmacology. Major classes of pharmacotherapeutic agents, mechanisms of action, pharmacokinetics, dosage and administration; effects and nursing responsibilities. Prerequisites: NURS 20020 with minimum C grade; and BSCI 30030 and CHEM 20284. 2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 30063 SPIRITUAL CARE OF PATIENTS

Study of the spiritual needs of patients and the nurse's role with regard to these needs. Prerequisite: NURS 20950. 2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 31095 SPECIAL TOPICS IN NURSING

Scheduled topics of interest to faculty and students. Prerequisite: NURS 20950. 2.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 31096 INDIVIDUAL INVESTIGATION

Designed for the student interested in exploration and research of material not covered in required nursing courses. Prerequisite: special approval. 2.000 TO 4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Nursing

NURS 35020 TRANSCULTURAL NURSING AND HEALTH CARE

Provides students with the opportunity to explore and understand the role of the transcultural nurse in the care of patients from multiple and diverse cultural groups. Prerequisite: junior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 35030 PATHOPHYSIOLOGY: ANALYSIS AND APPLICATION OF THE NURSING PROCESS

Enhances the understanding of pathophysiologic processes, the management of disease states, and analysis of related concepts of pharmacology, symptomatology and lab interpretation of data for the purpose of identification of priority nursing diagnosis and formulation of care plans appropriate for individual disease processes. Prerequisite: minimum grade of C (2.0) in NURS 20020 and 20030 and 30030 and 30040 and 30060; nursing (NURS) major; and junior or senior standing. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 35040 COMPLEMENTARY AND ALTERNATIVE MEDICINE

(Repeatable for credit) Explores and critically analyzes complementary and alternative medicines (CAM) primarily being used in the United States through the review of evidenced based research compared to CAM practitioners' case studies. Synthesizing the exploration of CAM with traditional Western medicine, students examine a new evolving medicine called Integrative Medicine. Prerequisite: none. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 40003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND

Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic

forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United States. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option. Prerequisite: 2.75 cumulative GPA; and special approval. 2.000 TO 3.000 Credit hours
2.000 TO 3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Seminar
Department: Nursing

NURS 40005 PROFESSIONAL NURSING DEVELOPMENT

Course focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Explores health care economics and policy, political activism, cultural competence, nursing theory, leadership of meetings and managing group dynamics, the future of nursing and health care, nursing practice opportunities, role development, professional nursing organizations, graduate education and specialty certification. Professional skill development continues from NURS 20010. Students have the opportunity to attend a professional nursing organization meeting. Prerequisites: NURS 20010 and NURS 30010 and NURS 30030 and NURS 30040 and NURS 30050 and NURS 30060 all with a minimum C grade. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing
Course Attributes: Writing Intensive Course

NURS 40010 NURSING OF THE CRITICALLY ILL

Holistic approach to assessing, intervening and evaluating critically ill persons. Nursing practice in critical care settings with diverse populations. Prerequisites: NURS 30010 and NURS 30030 and NURS 30040 and NURS 30050 and NURS 30060 all with minimum C (2.0) grade. 4.000 Credit hours
4.000 Lecture hours
0.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 40020 COMMUNITY HEALTH NURSING

Concepts of community health nursing with emphasis on health promotion and prevention of population-based health problems. Students are responsible for their transportation to field experience. Prerequisites: NURS 30010 and NURS 30020 and NURS 30030 and NURS 30040 and NURS 30050 and NURS 30060 all with minimum C grade. Corequisite: NURS 40030. 4.000 Credit hours



2.000 Lecture hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 40030 PSYCHIATRIC NURSING AND MENTAL HEALTH NURSING CARE

Focuses on the development of therapeutic relationships with individuals, families and vulnerable populations across the lifespan who have potential and/or identified mental health needs. Students will learn and apply theory about mental health illness. Prerequisites: NURS 30010 and NURS 30020 and NURS 30030 and NURS 30040 and NURS 30050 and NURS 30060 all with minimum C grade. Corequisite: NURS 40020.
4.000 Credit hours
4.000 Lecture hours
0.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 40045 INTEGRATION OF LEADERSHIP AND MANAGEMENT IN NURSING

Course provides students with the knowledge and skills for a beginning leadership position (team leader, module leader and primary nurse), applicable to the care of patients in a health care environment. Course provides students with opportunities to synthesize their nursing knowledge and collaborate with their clinical preceptor in preparation for their professional nursing role. Prerequisites: NURS 30020 and NURS 30030 and NURS 30040 all with minimum C (2.0) grade; and senior standing.
6.000 Credit hours
4.000 Lecture hours
8.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 40057 CASE MANAGEMENT IN HEALTHCARE AGENCIES

Course describes roles of institutional, community and insurance-based case managers; identifies mechanisms to establish case management systems; and develops communication, clinical evaluation and financial management skills. Prerequisite: Senior standing.
2.000 OR 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 40061 PHYSICAL ASSESSMENT

Self-instructional course using AV materials, readings and laboratory practice in the performance of physical assessments. Instructor available weekly. Written and performance tests required. Prerequisite: Senior standing and nursing (NURS) major.
2.000 Credit hours
2.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 40062 NURSE EXTERNSHIP IN NURSING PRACTICE

Opportunity for professional nursing practice is expanded to a selected population with complex health care needs. Focus is on increasing theoretical knowledge base and using knowledge in complex care situations with patients and their families. Prerequisite: Senior standing and nursing (NURS) major.
4.000 Credit hours
1.000 Lecture hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 40075 INFORMATION AND PATIENT CARE TECHNOLOGY FOR PROFESSIONAL NURSING PRACTICE

Focuses on the use of information management and information systems, technology and the human/technology interface utilized in professional nursing practice. Students taking this course must be registered nurses. Prerequisite: nursing (NURS) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 40085 INQUIRY AND RESEARCH FOR PROFESSIONAL NURSING PRACTICE

Introduction to clinical inquiry and research for the professional nurse. Theoretical frameworks appropriate to nursing are used in the development of a nursing research proposal. Pre/corequisite: MATH 10041 or PSYC 21621; or SOC 32220 and 32221; and nursing (NURS) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing
Course Attributes: Writing Intensive Course

NURS 40872 INTRODUCTION TO NURSING RESEARCH

Scientific approach and methods of research design in clinical nursing. Evaluation of specific nursing studies. Development of a researchable nursing problem analysis and critique of studies of problem and implications for clinical practice. Pre/corequisites: MATH 10041 or PSYC 21621 or SOC 32200.
3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Nursing

NURS 41000 CONCEPTS AND ISSUES FOR PROFESSIONAL NURSING PRACTICE

Focuses on nursing concepts and theory, nursing process and the history of nursing as it relates to the development of professional nursing and the role of the professional nurse. Students taking this course must be registered nurses. Prerequisite: nursing (NURS) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 41095 SPECIAL TOPICS

Scheduled topics of interest to faculty and students. Topics to be announced when scheduled. Prerequisite: none.
2.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 41096 INDIVIDUAL INVESTIGATION

Designed for the student interested in exploration and research of material not covered in required nursing courses. Prerequisite: NURS 30160 and NURS 30361 and NURS 30462 and NURS 30870.
2.000 TO 4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Nursing

NURS 42000 LEADERSHIP AND MANAGEMENT FOR PROFESSIONAL NURSING PRACTICE

Allows the registered nurse (RN) to utilize personal and professional knowledge and experiences in the study of leadership and management. Facilitates discovery of how nursing and leadership theories define and enhance practice. Assists the RN in analyzing the relationship between nursing, the professional nurse's leadership/management roles, and the articulation between nursing research and practice. Students taking the course must be registered nurses. Prerequisite: nursing (NURS) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Nursing

NURS 43000 HEALTH PROMOTION IN PROFESSIONAL NURSING PRACTICE

Utilizes the nursing process to explore health promotion and disease prevention across the lifespan and health care settings. Theories and models are used to understand health behaviors. Includes role of the nurse; national health objectives (Health People 2010); health literacy, education and counseling; transcultural considerations; factors affecting health promotion; and specific health promotion strategies. Students taking this course must



be registered nurses. Prerequisite: BSCI 20020 and 20021 and CHEM 10050 and 10052 and nursing (NURS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Nursing

NURS 44000 POPULATION-BASED NURSING FOR PROFESSIONAL NURSING PRACTICE

Focuses on concepts of population-based nursing practice with emphasis on improving the health of communities and populations. Students taking the course must be registered nurses. Prerequisites: BSCI 20020 and BSCI 20021 and CHEM 10050 and CHEM 10052 and nursing (NURS) major.

3.000 Credit hours

2.000 Lecture hours

6.000 Other hours

Level: Undergraduate

Schedule Types: Clinic, Lecture

Department: Nursing

NURS 45000 HEALTH MAINTENANCE AND RESTORATION FOR PROFESSIONAL NURSING PRACTICE

Focuses on issues related to health maintenance and restoration for individuals and families experiencing illness. Students taking this course must be registered nurses. Prerequisites: BSCI 20020 and 20021 and CHEM 10050 and 10052 and nursing (NURS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Nursing

NURS 45010 HEALTHCARE POLICY AND DELIVERY SYSTEMS

Web-based course looks at the organizational and societal context in which health care is delivered in the U.S. An historical perspective is developed early in the semester. Building on this, the course explores existing health care policy and delivery systems, including legislation, the professional disciplines, organizations and health networks, forms of care delivery, consumer needs, and economics and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth. Global health needs are examined as a minor theme. Ends with a focus on future forms of delivery that would improve the health care status of the American population as a whole. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Nursing

NURS 45020 CRITICAL APPLICATION OF NURSING IN PHARMACOLOGY

Enhances application and analysis of pharmacology in nursing. Explores assessment of therapeutic effect, side

effects and adverse reactions of medications. Analyzes pathophysiological symptoms, lab values and nursing indicators in order to allow students to initiate appropriate nursing actions as related to pharmacology. Further, course presents teaching skills needed to enhance patient education and pharmacologic literacy. Prerequisites: NURS 20020 and 20030 and 30060; and nursing (NURS) major; and junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Nursing

NURS 45030 PROFESSIONAL LITERACY: SKILLS TO CAREER ADVANCEMENT

Explores career and professional growth through processes such as writing, publishing, presenting and portfolio development. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Nursing

NURS 46000 HEALTH CARE POLICY

Examines the organizational and societal context in which health care is delivered. Existing health care policy and delivery systems are examined, including historical perspectives, legislation, professional disciplines, organizations, health networks, forms of care delivery, consumer needs and economics and funding. The ability of the current health care system to serve all segments of the U.S. population is examined in depth as well as future forms of health care delivery. Global perspectives are also studied. Prerequisite: junior level standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Nursing

NURS 47000 CAPSTONE CLINICAL FOR PROFESSIONAL NURSING PRACTICE

Allows RNs to apply previously learned nursing theory and clinical knowledge with their baccalaureate education in the identification and implementation of a scholarly nursing project. This project utilizes, but is not limited to, previously learned knowledge of leadership skills, principles of teaching/learning, health care policy, change process, group process, team building, collaboration, healthcare policy and delivery systems, quality improvement, evidence-based care, diversity, nursing roles, information technology and systems, population-based care and ethical/legal issues. Students taking this course must be registered nurses. Prerequisites: NURS 40075 and 41000. Pre/corequisites: NURS 40085 and 42000 and 43000 and 44000 and 45000 and 46000 and nursing (NURS) major.

3.000 Credit hours

6.000 Other hours

Level: Undergraduate

Schedule Types: Clinic

Department: Nursing

NURS 50003 COMPARATIVE HEALTH CARE: NURSING IN NORTHERN IRELAND

Includes a 2 week intensive study abroad that is conducted in Northern Ireland and includes seminars at the University of Ulster and in select clinical settings. Students examine the cultural, political and economic forces influencing health care and nursing needs; status of nursing education, licensure and practice; and health disparities in Northern Ireland and compare them to the United States. An additional 1 credit hour web-based option is offered the week immediately following the 2 weeks in Northern Ireland for students who choose the 3 credit hour option. Prerequisite: 3.00 cumulative GPA; graduate standing; and special approval.

2.000 TO 3.000 Credit hours

2.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Clinic, Seminar

Department: Nursing

NURS 50057 CASE MANAGEMENT IN HEALTHCARE AGENCIES

Course describes roles of institutional, community and insurance-based case managers identifies mechanisms to establish case management systems and develops communication, clinical evaluation and financial management skills. Prerequisite: Graduate standing.

2.000 OR 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 50093 VARIABLE TOPIC WORKSHOP IN NURSING

Topics of special interest to intensify knowledge in a particular area of graduate nursing. Prerequisite: graduate standing and special approval.

1.000 TO 5.000 Credit hours

1.000 TO 5.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Nursing

NURS 60000 ADULT CLINICAL NURSE SPECIALIST I

Introduces students to the Clinical Nurse Specialist (CNS) role in a specialty area (identified as a population, type of problem, setting, type of care or disease/pathology/medical specialty) with an emphasis on the patient sphere. Students have the opportunity to apply and evaluate theory and research in advanced assessment, pathophysiological processes, evidence-based interventions for disease management, and principles of teaching and coaching across the continuum of adult healthcare settings. Focus is on acquiring advanced knowledge in patient diagnosis, management and treatment in a specialized



area. Emphasis is on identification and management of symptoms, functional problems and risk behaviors commonly encountered in practice. Students select benchmarks and apply clinical measurement strategies in identifying achievement of clinical outcomes. Comprised of 3 didactic content hours per week and a clinical practicum of 7 hours per week. Prerequisite: NURS 60045 and graduate standing.
4.000 Credit hours
3.000 Lecture hours
7.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60001 PSYCHIATRIC MENTAL HEALTH ADVANCED PRACTICE NURSING ADULT I: INDIVIDUAL AND FAMILY

Study of theoretical approaches to advanced psychiatric mental health nursing practice with individuals and families who are experiencing identified mental health problems. Clinical interviewing and assessment skills related to individuals and families are emphasized, as are basic elements related to individual and family/couple psychotherapy. Pre- or corequisites: NURS 60201 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
2.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60002 PSYCHIATRIC MENTAL HEALTH ADVANCED PRACTICE NURSING ADULT II: GROUP, ORGANIZATION AND COMMUNITY

Study of the theoretical approaches to psychiatric mental health advanced practice nursing with groups, organizations and communities. Emphasis is on learning group psychotherapy, consultation and liaison skills. Students will develop skills in performing a community needs assessment. Prerequisite: NURS 60001 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
2.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60003 CONSULTATION AND LIAISON PSYCHIATRIC NURSING

Study of needs assessment, program development and evaluation research; consultation with professionals and nonprofessionals, and liaison nursing. Prerequisite: Graduate standing; and NURS 60001 and NURS 60002. Corequisite: NURS 66692.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Clinic
Department: Nursing

NURS 60004 PSYCHIATRIC MENTAL HEALTH ADVANCED PRACTICE NURSING CHILD/ADOLESCENT I: INDIVIDUAL AND FAMILY

Study of theoretical approaches to advanced psychiatric mental health nursing practice with children, adolescents and families who are experiencing identified mental health problems. Clinical interviewing and assessment skills related to individuals and families are emphasized, as are basic elements related to individual and family/couple psychotherapy. Pre- or Corequisite: NURS 60208 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60005 PSYCHIATRIC MENTAL HEALTH ADVANCED PRACTICE NURSE CHILD/ADOLESCENT II: GROUP, ORGANIZ AND COMMUNITY

Study of the theoretical approaches to psychiatric mental health advanced practice nursing with groups, organizations and communities. Emphasis is on learning group psychotherapy with adolescents, consultation and liaison skills. Students will develop skills in performing a community needs assessment. Prerequisites: NURS 60004 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60006 INTRODUCTION TO FAMILY ASSESSMENT AND COUNSELING IN NURSING

Study of theoretical approaches to counseling interventions with families and couples. Current status of research and evaluation of care is examined. Only students admitted to the family NP, Women's Health NP and Pediatric NP concentrations or post-master's certificate programs may register for this course. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Nursing

NURS 60021 ACUTE CARE FOR NURSE PRACTITIONERS

Emphasizes core principles and competencies that direct the clinical practice of Acute Care NURS Practitioners. APN Critical and Acute Care concepts are primary didactic objectives of course. Acute care foundations across continuum of health services highlighted. ADN student will be instructed and clinically mentored to utilize invasive interventions and procedures. Prerequisite: NURS 60042 and graduate standing.
5.000 Credit hours
3.000 Lecture hours
4.000 Other hours

Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60022 ACUTE CARE THERAPEUTICS

Emphasizes clinical understanding, evidenced based selection, monitoring and use of selected pharmacologic agents, parental nutritional products, and hematological agents used in acute care, critical care, emergency and sub-acute patient populations. Management of fluid and electrolyte disorders, basic toxicology and hospital and community acquired infection related therapies. Prerequisite: NURS 60441 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60023 ADULT CLINICAL NURSE SPECIALIST II

Further develops the clinical nurse specialist (CNS) role with an emphasis on nursing and organizational spheres. Students use system-level thinking to identify and address nursing practice and organizational problems across the continuum of adult health settings. Essential core content includes research and scientific innovations, nurse sensitive outcomes, change theory, collaborative practice, technology and cost effectiveness. Focus is on developing solutions to problems identified in nursing and organizational spheres. Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week. Prerequisites: NURS 60000 and 60045 and graduate standing.
4.000 Credit hours
2.000 Lecture hours
14.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60034 PCN NURSE PRACTITIONER MASTERY PRACTICUM

Emphasis will be on refinement of nurse practitioner skills and expansion of knowledge base in selected areas of concentration. Prerequisite: NURS 60031 and graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60035 ADULT CLINICAL NURSE SPECIALIST III

Provides the clinical nurse specialist student the opportunity to apply previously acquired knowledge in advanced nursing practice in the patient, and nurse spheres with special emphasis on the organizational sphere in their clinical focus area. Focus is on role transition, clinical expertise, application and synthesis. Comprised of 2 didactic content hours per week and a



clinical practicum of 14 hours per week.
Prerequisite: NURS 60000 and 60023 and graduate standing.
4.000 Credit hours
2.000 Lecture hours
14.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60036 WOMEN'S HEALTH NURSE PRACTITIONER CLINICAL PRACTICUM

Emphasis will be placed on refinement of women's health nurse practitioner skills and expansion of knowledge base related to women's health in selected areas of concentration. Prerequisite: NURS 60081 and graduate standing.
2.000 TO 4.000 Credit hours
2.000 TO 4.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 60037 PEDIATRIC NURSE PRACTITIONER CLINICAL PRACTICUM

Clinical focus is on advanced nursing practice in the primary care of children. Students improve on physical assessment skills diagnostic reasoning and critical thinking through practice. "IP" grade permissible. Prerequisite: graduate standing.
2.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 60041 ADVANCED ASSESSMENT OF ADULT CLIENTS

Assessment, reasoning and decision making skills for the advanced practice nurse to formulate comprehensive health data bases and therapeutic regimens for adult clients. Only students admitted to the Adult NP, Family NP, Geriatric NP, Adult CNS, Women's Health NP and Acute Care NP concentrations or post-master's certificate programs may register for this course. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
1.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
All Sections for this Course
Department: Nursing

NURS 60042 ADULT PRIMARY HEALTH CARE I

Advanced primary health care for the nurse practitioner student caring for adult clients with common acute and chronic disorders. Emphasis on nursing and health care management within a multidisciplinary context. Prerequisite: NURS 60041 and NURS 60045 and NURS 60206 and graduate standing.
5.000 Credit hours
3.000 Lecture hours
2.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture

Department: Nursing

NURS 60043 ADULT PRIMARY HEALTH CARE II

Advanced primary health care for the nurse practitioner student caring for adult clients with complex acute and chronic disorders. Emphasis on nursing and health care management in a multidisciplinary context. Prerequisite: NURS 60041 and NURS 60205 and NURS 60206 and NURS 60441. Graduate standing.
5.000 Credit hours
3.000 Lecture hours
2.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60045 PATHOPHYSIOLOGY FOR ADVANCED PRACTICE NURSES

Provides graduate nursing students with a theoretic foundation of human physiology and the phenomena that produce alterations or pathology in human physiologic function; and an understanding of the basis of disease processes. Assumes students have basic understanding of human biology comparable to BSCI 20020, Structure and Function and BSCI 30030, Human Physiology content. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60050 PHARMACOLOGY FOR WOMEN'S HEALTH NURSE PRACTITIONERS

Web-based course focuses on pharmacology related specifically to women throughout their lifespan. Prepares Advanced Nurse Practitioners to meet the pharmacological healthcare needs of women in primary healthcare settings. Prerequisite: NURS 60441 and 60080 and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60053 CLINICAL INTERVENTIONS AND PHYSIOLOGICAL HEALTH STATUS

Clinical reasoning (diagnosis, intervention, outcome evaluation) applied to complex problems of clients and their health behaviors with emphasis on relationship to physiological status. Clinical sites individualized. Prerequisite: NURS 60045 and graduate standing.
5.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Clinic
Department: Nursing

NURS 60056 ADULT HEALTH NURSING INTERVENTIONS AND PSYCHOSOCIAL HEALTH

Clinical reasoning applied to complex problems of clients and their health behaviors. Includes analysis of socioeconomic, health policies, developmental stages, belief systems and life styles. Clinical sites individualized. Prerequisite: NURS 60045 and graduate standing.
5.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Clinic
Department: Nursing

NURS 60072 WOMEN'S HEALTH NURSE PRACTITIONER CAPSTONE

Focus is on synthesizing women's health nurse practitioner knowledge and skills to provide expert care to a selected population of women's health clients. Prerequisite: NURS 60085 and graduate standing.
4.000 Credit hours
4.000 Lecture hours
0.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60073 WOMEN'S HEALTH CLINICAL NURSE SPECIALIST CAPSTONE

Focus on synthesizing women's health clinical nurse specialist knowledge and skills to provide expert care to a selected population of women's health clients. Prerequisite: NURS 60031 and NURS 60032 and NURS 60033 and NURS 60431. Graduate standing.
4.000 Credit hours
4.000 Lecture hours
0.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60074 PEDIATRIC NURSE PRACTITIONER CAPSTONE

Focus on synthesizing pediatric nurse practitioner knowledge and skills to provide expert care to a selected population of pediatric clients. Prerequisite: graduate standing.
4.000 Credit hours
4.000 Lecture hours
0.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60075 PEDIATRIC CLINICAL NURSE SPECIALIST CAPSTONE

Focus on synthesizing clinical nurse specialist knowledge and skills to provide expert care to a selected population of pediatric clients. . Prerequisite: NURS 60031 and NURS 60032 and NURS 60033. Graduate standing.
4.000 Credit hours
4.000 Lecture hours
0.000 Other hours
Level: Graduate



Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60080 HEALTH CARE OF THE WELL WOMAN

Development of foundational basis for competent clinical practice of women within a healthcare setting. Clinical assessment skills are emphasized and the student is expected to concentrate efforts in attainment of and safe execution of skills pertinent to the care of the well woman. Course also focuses on the study of selected theories and models used by professional nurses when working with adolescent and adult women. Emphasis is placed on fertility control and is provided through individually planned experiences with faculty who are serving as primary care providers in family planning and gynecology care settings. Course will also emphasize the coordination of care needed within the clinical setting through the diagnostic, planning and evolutionary components pertinent to clinical practice. Only students admitted to the Women's Health NP concentration or post-master's certificate program may register for this course. Prerequisite: Graduate standing and NURS 60101.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60081 HEALTH CARE OF THE REPRODUCTIVE AGE WOMAN

Application of nursing theory, practice and research by advanced practice nurses in the promotion of health and wellness of women during the reproductive years. The emphasis is on normal pregnancy focusing on prevention and health promotion as well as the management of deviation from normal. Clinical assessment skills, including diagnosis, nursing intervention, treatment and evaluation are emphasized; students are expected to concentrate efforts in attaining and safely executing skills pertinent to caring for women during their reproductive years. Prerequisite: Graduate standing and NURS 60041 and 60080.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60082 GERIATRIC PRIMARY CARE I

Major clinical course that develops the cognitive and perceptual skills needed to provide primary health care services to older adults in ambulatory care settings. Prerequisite: NURS 60041 and NURS 60206 and BSCI 60446; and graduate standing.

5.000 Credit hours
5.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60083 GERIATRIC PRIMARY CARE II

Focus on chronic and acute health problems common in geriatric patients. Develops the cognitive and perceptual skills needed to provide primary health care services to older adults in ambulatory and community care settings. Prerequisite: NURS 60082 and NURS 60192 and graduate standing.

5.000 Credit hours
5.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60085 PRIMARY HEALTH CARE OF WOMEN

Further development of a foundations basis for competent clinical practice within a healthcare setting. Introduces the student to the practice of primary health care of women including premenopausal and menopausal women. Included are principles of growth and development, health promotion, disease prevention and management of common acute and chronic health problems. Emphasis is placed on the biological, psychological and social cultural aspects of care. Pathophysiology assessment and diagnostic techniques specific to the acute and common problems are stressed. Nursing strategies related to health problems used to enhance, maintain and restore health are emphasized. Also emphasized are the coordination of care needed within the clinical setting, collaboration and use of community resources.. Prerequisite: Graduate standing and NURS 60081.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60092 NURSE PRACTITIONER SUMMER PRACTICUM

Course provides an individualized, goal directed primary care clinical practicum and addresses professional issues of nurse practitioners. In addition, students will participate in the care of diverse culture population through the migrant farmer camp. Prerequisite: NURS 60041 and 60042 and graduate standing.

2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 60101 THEORETICAL BASIS FOR NURSING PRACTICE I

This course will be used to study concepts and theories common to all specialty areas of nursing. It provides a firm basis for advanced clinical nursing practice. Progress in theory development for nursing practice is addressed. Prerequisite: Graduate standing in nursing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Nursing

NURS 60192 PRACTICUM:ADULT-GERIATRIC NURSE PRACTITIONER

Provides individualized, goal directed clinical practicum in geriatric primary care. Addresses professional issues of geriatric nurse practitioners. Additionally, students participate in comprehensive geriatric assessment setting. Prerequisite: NURS 60082 and graduate standing.

2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Clinic
Department: Nursing

NURS 60199 THESIS I

Thesis students must register for a total of 6 credit hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisites: NURS 60401 or NURS 60001 or NURS 60021; and special approval; and graduate standing.

2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Nursing

NURS 60201 THEORIES FOR ADVANCED PSYCHIATRIC MENTAL HEALTH NURSING

Major theories of historical importance to psychiatric nursing are studied. Significant relationships between various theories are examined and related to psychiatric nursing practice. Only students admitted to the Psychiatric Mental Health NP or CNS concentrations or post-master's certificate programs may register. Prerequisite: Nursing (NURS) major and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60204 HEALTH CARE ISSUES OF AGING:NURSING CONCEPTS

This course focuses on the theory and research related to biophysiological, psychosocial, cultural, ethical developmental, environmental and policy factors related to aging and health. It is intended that students will gain a basic understanding of the multiple factors related to the functional health patterns among an older adult population and that this knowledge can be applied by professionals in research and practice with aging adults in a variety of health care settings. This course is open to graduate students in any discipline and is recommended for students in the Nursing of the Adult graduate program. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

**NURS 60205 INTRODUCTION TO APPLIED EPIDEMIOLOGY**

Seminar on basic epidemiology principles, concepts and procedures for disease surveillance and investigation. Prerequisite: Graduate standing.

1.000 Credit hours
2.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60206 AMBULATORY DIAGNOSTICS FOR ADVANCED NURSING PRACTICE

Experience for the nurse practitioner student in selection, safe use and interpretation of basic laboratory testing, screening and examinations for client management in primary care. Pre/corequisite: NURS 60041 and graduate standing.

2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60208 THEORY FOR ADVANCED PSYCHIATRIC MENTAL HEALTH NURSING, CHILD AND ADOLESCENT FOCUS

Major theories of historical importance to psychiatric nursing are studied. Significant relationships between various theories are examined and related to psychiatric nursing practice with children, adolescents and their families. Only students admitted to the Psychiatric Mental Health NP or CNS concentrations or post-master's certificate programs may register for this course. Prerequisite: Nursing (NURS) major and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60292 PRACTICUM: ADULT-GERIATRIC PRIMARY CARE NURSE

Individually planned practicum in the final semester in which students test the effectiveness of various strategies inherent within the role of advanced practice nurse practitioner, and to demonstrate leadership through role implementation under the guidance of an experienced preceptor.

Prerequisite: NURS 60041 NURS 60082 NURS 60083 NURS 60192 graduate standing.

4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Clinic
Department: Nursing

NURS 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: NURS 60199 and graduate standing.

2.000 Credit hours
2.000 Other hours

Level: Graduate
Schedule Types: Master's Thesis
Department: Nursing

NURS 60303 GERONTOLOGICAL CNS I

Introduces students to the Clinical Nurse Specialist (CNS) role in a specialty area with an emphasis on the patient sphere. Students have the opportunity to apply and evaluate theory and research in advanced assessment, pathophysiological processes, evidence-based interventions for disease management, and principles of teaching and coaching across the continuum of gerontological healthcare settings. The focus of the course is on acquiring advanced knowledge in patient diagnosis, management and treatment in care of the older adult. Emphasis is on identification and management of symptoms, functional problems, social, psychological, legal, economic issues facing the older adult and risk behaviors commonly encountered in practice. Students select benchmarks and apply clinical measurement strategies in identifying achievement of clinical outcomes. Course comprises three didactic contact hours and seven clinical hours per week. Pre/corequisites: NURS 60101 and 60041 and 60045 and 60204; and graduate standing.

4.000 Credit hours
3.000 Lecture hours
1.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60304 GERONTOLOGY CLINICAL NURSE SPECIALIST II

Provides the Clinical Nurse Specialist student the opportunity to apply previously acquired knowledge in advanced gerontological nursing practice in the patient and nurse spheres with special emphasis on the organizational sphere. The focus of the course is on role transition, clinical expertise, application and synthesis. Course comprises two didactic content hours and 14 clinical hours per week. Prerequisites: NURS 60303 and graduate standing.

4.000 Credit hours
2.000 Lecture hours
2.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60305 GERONTOLOGICAL CLINICAL NURSE SPECIALIST III

Provides the clinical nurse specialist student the opportunity to apply previously acquired knowledge in advanced gerontological nursing practice in the patient and nurse spheres with special emphasis on the organizational sphere. The focus of the course is on role transition, clinical expertise, application and synthesis. Course comprises two didactic content hours and 14 clinical hours per week. Prerequisites: NURS 60304 and graduate standing.

4.000 Credit hours

2.000 Lecture hours
2.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60313 ANALYSIS OF HEALTH CARE ORGANIZATIONS

An in-depth look at organizational theory and behavior in hospitals and health agencies. Current factions in the environment organizational design health policy and their influence on patient care processes will be studied. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60314 INTERNSHIP IN HEALTH CARE MANAGEMENT

Provides an opportunity for students to gain practical experience and be exposed to processes of strategy creation, policy development, decision-making and patient care with the health care industry.

Prerequisites: NURS 65092 and BAD 64271 and BAD 6404 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60315 BUDGETARY AND FISCAL MANAGEMENT FOR NURSES

Examines management of fiscal resources in nursing service settings. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60332 CLINICAL SPECIALIZATION IN PSYCHIATRIC MENTAL HEALTH NURSING

Practicum to test out role of clinical specialist in psychiatric mental health nursing in a setting selected by student and preceptor. Prerequisites: NURS 65592 and graduate standing.

4.000 Credit hours
3.000 Lecture hours
3.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 60342 ROLE PRACTICUM ADULT HEALTH CLINICAL NURSE SPECIALIST

Individually planned practicum in which the student performs in the role of the clinical specialist with a specified population of adult clients. Prerequisite: NURS 60053 and NURS 60056. Graduate standing.

4.000 TO 6.000 Credit hours
9.000 Other hours
Level: Graduate
Schedule Types: Clinic



Department: Nursing

NURS 60352 CLINICAL SPECIALIZATION IN PARENT-CHILD NURSING

The course is an individually planned practicum in which the student performs in the role of clinical specialist with a specified population of parents or children of the student's selection. Prerequisite: NURS 60331 and graduate standing.

4.000 Credit hours

4.000 Lecture hours

3.000 Other hours

Level: Graduate

Schedule Types: Clinic, Lecture

Department: Nursing

NURS 60392 INTERNSHIP IN HEALTH AND PUBLIC ADMINISTRATION

Provides an opportunity for students to gain practical experience and be exposed to processes of public decision-making and policy development within the health care sector. Prerequisite: Enrollment in MSN/MPA program. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 60401 NURSING RESEARCH METHODS I

Introduces the research process. Elements of research design and methods for both quantitative and qualitative approaches are examined. Students develop a researchable problem for nursing practice for both approaches. Prerequisite: NURS 60101 and graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 60402 NURSING RESEARCH METHODS II

Extends understanding of quantitative and qualitative research methods in knowledge development and application for nursing practice. Students develop approaches to data analysis to address nursing research problems, examine research utilization and evidence based practice models and critique research reports. Prerequisite: NURS 60401 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 60432 ADULT NURSE PRACTITIONER ROLE PRACTICUM

An individually planned practicum in the final semester in which students perform in the role of a nurse practitioner in a selected multidisciplinary primary care context under guidance of an experienced preceptor. Prerequisite: graduate standing.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 60441 PHARMACOLOGY FOR ADVANCED PRACTICE NURSING

A survey course addressing the fundamental principles of medication prescribing and administration necessary for nurses in advanced practice. Course addresses pharmacodynamics, pharmacokinetics and pharmacotherapeutics. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 60442 PSYCHOPHARMACOLOGY FOR ADVANCED HEALTHCARE PRACTICE

Psychopharmacology for advanced practice addresses the fundamental principles for psychopharmacology necessary for health practitioners in advanced adult/child/geriatric psychiatric practice; includes basic pharmacokinetics and pharmacodynamic principles. Prerequisite: special approval.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 60450 ETHICAL AND CULTURAL ISSUES FOR HEALTH PROFESSIONALS

This course will examine varying cultural perspectives, including one's own and critical ethical issues faced by today's health care providers. Prerequisite: Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 60451 HEALTH POLICY AND DELIVERY SYSTEMS FOR HEALTH CARE POLICY

This course focused on health care policy, financing and delivery systems is one of a two course graduate seminar series. Students explore the political and scientific basis of health policy formulation primarily in the U.S. and public private funding arrangements. "State of Science" assignments concern current research. Prerequisite: Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 60492 FAMILY PRIMARY CARE NURSE PRACTITIONER ROLE PRACTICUM OBGYN AND PEDIATRICS

Course content is organized around common health issues, needs and problems of women and children. Additional focus will be given to the health promotion

and disease detection as related to pediatric primary care, preconception, pregnancy and post partum patients. Prerequisite: NURS 60043 and graduate standing.

5.000 Credit hours

5.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Nursing

NURS 60496 INDEPENDENT STUDY

Readings and/or research supervised by a member of graduate faculty. Provides students the opportunity to explore a content area in depth. Prerequisite: Special approval and graduate standing.

1.000 TO 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Nursing

NURS 60498 RESEARCH

Research or individual investigation supervised by a graduate faculty member. Repeat registration permitted. Maximum of 9 credit hours may apply toward degree. Prerequisite: Special approval and graduate standing.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Nursing

NURS 60592 NURSING EDUCATION PRACTICUM

Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week. Working with a nursing master teacher this course prepares the student with practical experience in curriculum design, implementation and instruction with nursing students. Prerequisites: NURS 60601 and 60602 and 60604; and graduate standing.

4.000 Credit hours

2.000 Lecture hours

2.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Nursing

NURS 60601 NURSING CURRICULUM AND INSTRUCTION IN HIGHER EDUCATION

Web-based course for master's enrolled or master's prepared nurses to teach content and facilitate advanced critical thinking in the areas of curriculum planning, design, development, implementation and evaluation in higher education nursing. Prerequisite: Special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

**NURS 60602 ROLES AND EVALUATION FOR NURSING CURRICULUMS IN HIGHER EDUCATION**

Web-based course for master's enrolled or master's prepared nurses focusing on content, theory, history and techniques of evaluation for nursing educational programs. Faculty and student roles, and legal and ethical issues are also addressed. Prerequisite: NURS 60601.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60604 NURSING HEALTH CARE CLINICAL ISSUES IN A SPECIALTY AREA

This 2 hour course focuses on the theory, research, and evidenced-based practice related to biophysiological, psychosocial, cultural, ethical, developmental, environmental and policy factors of a specialty clinical area in nursing practice. Students gain a basic understanding of the multiple factors related to healthcare issues among individuals in the specialty population. Prerequisite: NURS 60601 and graduate standing. Pre- or corequisite: NURS 60602.

2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 60692 PRACTICUM IN NURSING HIGHER EDUCATION CURRICULUM

Curriculum design, implementation and teaching experience with nursing master teacher in higher education undergraduate or graduate nursing courses. Prerequisite: NURS 60601 and 60602 and graduate standing.

3.000 Credit hours
2.000 Lecture hours
7.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 60792 PRACTICUM IN ACUTE CARE NURSE PRACTITIONER ROLE

Individually planned practicum in which student performs in advanced practice role with an acutely ill population of clients of student's choice in a selected acute care setting. Students have an opportunity to test effectiveness of various strategies and demonstrate leadership under guidance of an experienced clinical preceptor and NP faculty preceptor. Prerequisite: graduate standing.

2.000 TO 6.000 Credit hours
1.000 TO 3.000 Lecture hours
14.000 TO 28.000 Other hours
Level: Graduate
Schedule Types: Lecture, Practicum
Department: Nursing

NURS 61003 NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS

Focuses on the neurobiology of severe and persistent psychiatric disorders. Addresses fundamental principles underlying psychopharmacology related to these disorders. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 61005 NURSING INFORMATICS

Explores the role of informatics in professional nursing practice. Students learn basic information skills including telecommunication and management of nursing data, and apply these skills with clinical nursing health data. Prerequisite: Special approval and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 61006 NEUROBIOLOGY AND PSYCHOPHARMACOLOGY OF MAJOR PSYCHIATRIC DISORDERS: CHILD/ADOLESCENT FOCUS

Focuses on the neurobiology of severe and persistent psychiatric disorders of children and adolescents. Addresses fundamental principles underlying psychopharmacology related to these disorders. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 61021 ADVANCED PEDIATRIC ASSESSMENT AND HEALTH PROMOTION

Initial pediatric course emphasizes primary care of infants, children and teens with a holistic approach to well child development, health promotion, illness prevention and management of developmental challenges with a family centered approach.

Assessment and lab on first 4 Thursdays of semester. Clinicals will be held at primary care sites. Only students admitted to the Family NP, and Pediatric NP and CNS concentrations or post-master's certificate programs may register for this course. Pre/corequisite: NURS 60101 and graduate standing.

5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Clinic
Department: Nursing

NURS 61022 PRIMARY CARE OF ACUTELY ILL CHILDREN

Clinical course emphasizing development of competent clinical advanced practice nursing skills for, and comprehensive knowledge of, acute physical and psychosocial illnesses in children including

diagnoses, management and evaluation in primary care. Clinical is in acute primary care setting. Prerequisite: NURS 61021 and graduate standing. Pre/corequisite: NURS 60045.

5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Clinic
Department: Nursing

NURS 61023 CARE OF ACUTELY ILL CHILDREN

Clinical course focuses on the complex physical and psychosocial needs of hospitalized acutely ill children and their families. Analysis and synthesis of holistic assessment serve as conceptual framework for advanced practice nursing interventions. Clinical sites individualized. Prerequisite: NURS 61021 and graduate standing.

Pre/corequisite: NURS 60045.
5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Clinic
Department: Nursing

NURS 61024 CARE OF CHRONICALLY ILL CHILDREN

Clinical course emphasizing development of competent clinical advanced practice nursing skills for and comprehensive knowledge of chronic illnesses/conditions in children, including diagnoses management and evaluation in primary care. Concepts of chronic illness and interventions for families are explored. Clinical sites focus on chronic illnesses. Prerequisite: NURS 61022 and graduate standing.

4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Clinic
Department: Nursing

NURS 61095 SPECIAL TOPICS IN NURSING

Topics in nursing such as holistic health, selected pathological alterations and recent developments. May include clinical practicum. May be repeated three times with approval for a maximum of 12 credits applied toward the degree. Prerequisite: Graduate standing in nursing.

2.000 TO 6.000 Credit hours
2.000 TO 6.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 62021 ADV PED ASSESS HLTH PROM PMH

Initial pediatric course emphasizes primary care of infants, children and teens with a holistic approach to well child development, health promotion, illness prevention and management of developmental challenges with a family centered approach.

Assessment lab on first 4 Thursdays of the semester. Prerequisite: graduate standing. Pre- or Corequisite: NURS 60101.
3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 64492 PSYCHIATRIC MENTAL HEALTH NURSING PRACTICUM I

The focus of this practicum is learning mental health assessment, diagnosis, and individual psychotherapy skills. Requires 140 clinical hours. Group supervision is provided. Prerequisites: NURS 60001 or 60004; and NURS 61003 or 61006; and NURS 60206; and graduate standing.
2.000 Credit hours
11.660 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 65092 PRACTICUM: NURSING AND HEALTH CARE MANAGEMENT I

The required first of two capstone management practicums in a health care agency for nurses. Students integrate and apply management knowledge and are coached in professional roles by established nursing and health care management leaders. Prior to registration for this course, students must complete 18-25 credit hours of combined NURS, BAD and PADM courses before taking this course. Prerequisite: special approval and graduate standing.
3.000 TO 5.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 65192 PRACTICUM: NURSING AND HEALTH CARE MANAGEMENT II

The second of two capstone management practicums in a health care agency for nurses. Students further integrate and apply management knowledge and their professional roles coached by established nursing and health care management leaders. One credit hour managerial topics. Prerequisites: NURS 65092 and graduate standing.
3.000 TO 5.000 Credit hours
21.000 TO 35.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 65592 PSYCHIATRIC MENTAL HEALTH NURSING PRACTICUM II

Practicum continues to build knowledge and skills in mental health assessment, individual psychotherapy, and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. Learning group, family, and couples psychotherapy is emphasized. Group supervision is provided. Pre- or Corequisite: NURS 60002 or 60005; and graduate standing.
1.000 Credit hours
7.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 65692 PSYCHIATRIC MENTAL HEALTH NURSING PRACTICUM III

Focus of this practicum will be to learn group psychotherapy skills and to gain experience working with a PMH prescriber. This practicum requires students to complete 105 hours. Prerequisite: NURS 65592; and graduate standing.
Corequisites: NURS 60002 or 60005.
1.000 Credit hours
8.500 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 66692 PSYCHIATRIC MENTAL HEALTH NURSING PRACTICUM III

Clinical course emphasizes consultation and liaison activities with agencies that serve the acutely and chronically ill. Corequisite: NURS 60003 and graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 70600 CLINICAL SCHOLAR I

Focus is transitioning to the clinical scholar leader role within an identified area of advanced nursing practice. Emphasis is placed on the epistemology underlying advanced nursing practice and the integration of theoretical frameworks and evidence-based practice principles in achieving optimal health outcomes for individuals and groups. Comprised of 2 didactic content hours per week and a clinical practicum of 7 hours per week. Prerequisite: doctoral standing and special approval.
3.000 Credit hours
2.000 Lecture hours
7.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 70602 SYNTHESIS AND APPLICATION OF EVIDENCE FOR ADVANCED NURSING PRACTICE

Focus is on the concepts, models, and methods for implementation of evidence-based nursing practice at both individual clinician and system levels. Competencies for the identification, analysis, synthesis, and application of evidence relevant to nursing and health care practice are developed. Factors that facilitate and impede implementing and sustaining evidence-based practice are considered. Students learn skills necessary for identification of clinical problems in advanced practice nursing and promoting adoption and implementation of evidence-based solutions to promote patient health outcomes. Pre- or Corequisites: NURS 70727 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70610 CLINICAL SCHOLAR II

Translating and integrating theory and scientific evidence into the clinical work of the advanced practice clinical scholar is the focus of this second seminar course. Culturally-aware approaches are developed to resolve a healthcare issue using theoretic models and principles of evidence-based practice to design innovative interventions. Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week. Prerequisites: NURS 70600; and doctoral standing; and special approval.
4.000 Credit hours
2.000 Lecture hours
14.000 Other hours
Level: Graduate
Schedule Types: Clinic, Lecture
Department: Nursing

NURS 70640 ADVANCED LEADERSHIP IN HEALTHCARE

Advanced competencies of the doctoral-prepared advanced practice nurse for transformational leadership in healthcare to improve patient and population health outcomes are addressed. Five key leadership competencies including creating and leading change; self-knowledge; strategic vision; interpersonal communication; and organizational effectiveness are presented with examples and case studies. Transcending themes of ethics, research, interprofessional collaboration, creativity, and insuring accountability are addressed throughout the course. Students conduct a self-assessment, and develop and implement individualized action plans for advanced competency in interprofessional healthcare leadership. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70692 CLINICAL SCHOLAR PRACTICUM

Synthesis of components of clinical scholar leader role comprises this practicum. Students apply advanced leadership and clinical scholarship skills to developing and evaluating approaches to healthcare problems in a practicum setting. Prerequisites: NURS 70610; and doctoral standing; and special approval.
3.000 Credit hours
21.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Nursing

NURS 70705 FOUNDATIONS OF RESEARCH METHODS IN NURSING

Examines diverse paradigms and research methods as the foundation for scholarly inquiry in nursing knowledge development. Students begin building a foundation for focused intellectual inquiry in a substantive area of nursing. Pre- or corequisite: NURS 70710 and doctoral standing.
3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70710 HISTORY AND PHILOSOPHY OF NURSING SCIENCE

This course examines the nature and metaphysics and epistemology and the influence of contemporary Eastern and Western philosophies on the developing epistemology of disciplinary nursing knowledge. Prerequisite: Doctoral standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70715 THEORY CONSTRUCTION AND DEVELOPMENT IN NURSING

This course examines strategies for theory development including logical-empirical-deductive and inductive approaches. Emphasis will be on elements and strategies used in theory building. Prerequisite: NURS 70710 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70720 INTRODUCTION TO NURSING KNOWLEDGE DOMAINS

Introductory seminar analyzing selected theoretical and methodological approaches to knowledge development in nursing. Emphasis on critical analysis of knowledge in areas of special interest. Prerequisite: Doctoral standing or special approval from Department. Pre- or corequisite: NURS 70715.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70725 QUANTITATIVE RESEARCH METHODS IN NURSING

Extends students' knowledge of the theory and practice of quantitative research in nursing. Focus is on the major types of quantitative design in nursing science. Theoretical and procedural issues related to design, measurement and data management with a substantive area of nursing inquiry are emphasized. Akron 8200:825. Pre- or corequisites: NURS 70705 and 70727 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70727 ADVANCED HEALTH CARE STATISTICS I

Comprehension of bivariate and multivariate descriptive and inferential statistics designed for nurse researchers.

Applications to research problems in nursing. Akron 8200 827. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing
Course Attributes: Joint Program/ Consortia Agreement

NURS 70730 QUALITATIVE RESEARCH METHODS IN NURSING

Selected qualitative research methods used to study nursing phenomena. Philosophical bases; design, data collection and analysis; evaluation of rigor; and ethical issues for major qualitative methods will be analyzed with regard to nursing phenomena. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70735 NURSING AND HEALTH CARE POLICY

Critical examination of theories and processes of formulating state/national health care policy. Focus on health issues, the political and legislative process and contemporary policy dilemmas. Prerequisite: Doctoral standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70737 ADVANCED HEALTH CARE STATISTICS II

Application of bivariate and multivariate descriptive and inferential statistics to research problems in nursing. Akron 8200 837. Prerequisite: NURS 70727 and doctoral standing or special approval from department.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing
Course Attributes: Joint Program/ Consortia Agreement

NURS 70745 ADVANCED TOPICS IN QUANTITATIVE RESEARCH METHODS

Focuses on integration and application of components of quantitative research design in nursing through application of multivariate design principles to existing data sets. Advanced topics in methods, statistics and measurement are addressed. Prerequisites: NURS 70725 and 70727 and doctoral standing. Pre- or corequisite: NURS 70737.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70746 ADVANCED METHODS FOR NURSING RESEARCH:MEASUREMENT IN NURSING

Theories and concepts related to measurement and nursing research including techniques for construction, testing and refining of instruments with assessment of reliability and validity. Prerequisite: NURS 70720 and NURS 70725; and doctoral standing; or special approval from department.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70747 ADVANCED METHODS FOR NURSING RESEARCH: APPLICATION OF QUALITATIVE METHODS

Theory, data collection and analysis used in qualitative nursing research with a focus on phenomenology, grounded theory and ethnography. Prerequisite: NURS 70720 and NURS 70725 and NURS 70730.
Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70748 ADVANCED METHODS FOR NURSING RESEARCH:PROGRAM EVALUATION IN NURSING

Seminar and lecture: analysis of theories and models of program evaluation and their relationships to designs, processes, techniques and outcomes in nursing-related evaluations. Prerequisite: Doctoral standing or special approval from department; and NURS 70720.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70749 ADVANCED METHODS FOR NURSING RESEARCH:GRANT DEVELOPMENT AND FUNDING

Advanced seminar on critical analysis of proposal and grant development, funding, peer review and advocacy process with emphasis on the development of a grant proposal. Prerequisite: Doctoral standing or special approval from department; and NURS 70720.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Nursing

NURS 70792 FIELD EXPERIENCE IN NURSING

Individual enrollment in field experience settings related to nursing. Prerequisite: Doctoral standing.
1.000 TO 12.000 Credit hours
12.000 Lecture hours
Level: Graduate



Schedule Types: Lecture
Department: Nursing

NURS 70795 SPECIAL TOPICS IN NURSING

Study of important topics in nursing practice, research on the profession. Offering in response to existing interests and opportunities. Prerequisite: Doctoral standing.

2.000 TO 6.000 Credit hours

6.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Nursing

NURS 70796 INDIVIDUAL INVESTIGATION IN NURSING

Individual enrollment for independent study in nursing carried out by student under supervision of a doctoral faculty member.

Prerequisite: Doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Nursing

NURS 70798 RESEARCH IN NURSING

Research carried out by a student under faculty supervision. In-depth inquiry should result in a paper or appropriate product.

Prerequisite: Doctoral standing.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Nursing

NURS 76199 CAPSTONE PROJECT I

Faculty and preceptor-directed project that contributes to nursing practice knowledge. Culminates in an oral defense and a publishable manuscript. Students register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over three semesters if desired. Prerequisites: NURS 70600; and doctoral standing; and special approval. Pre- or Corequisite: NURS 70610

2.000 TO 6.000 Credit hours

14.000 TO 42.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Nursing

NURS 76299 CAPSTONE PROJECT II

Capstone project students must continue registration until all degree requirements are met. Prerequisites: NURS 76199; and doctoral standing; and special approval.

1.000 TO 3.000 Credit hours

Level: Graduate

Schedule Types: Research

Department: Nursing

NURS 80199 DISSERTATION I

Independent doctoral research for the dissertation under faculty supervision. Registration of at least two semesters is required, continuing until completion of 30 credit hours. Akron 8200:899. Prerequisite: doctoral standing and admission to doctoral candidacy.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Nursing

NURS 80299 DISSERTATION II

Continuing registration of research, after initial 30 hours of Dissertation I.

Prerequisites: 30 hours of NURS 80199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Nursing

NURS 86091 VARIABLE CONTENT SEMINAR IN NURSING:NURSING SCIENCE I

Seminar on in-depth analysis, synthesis and evaluation of one substantive area within nursing and related disciplines focusing on the generation and dissemination of nursing knowledge. Akron 8200:840. Prerequisite: NURS 70720.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Nursing

NURS 86191 VARIABLE CONTENT SEMINAR IN NURSING:NURSING SCIENCE I:FAMILY THEORIES AND NURSING RESEARCH

Seminar on in-depth analysis, synthesis and evaluation of one substantive area within nursing and related disciplines focusing on the generation and dissemination of nursing knowledge. Akron 8200:840. Prerequisite: NURS 70720.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Nursing

NURS 86291 VARIABLE CONTENT SEMINAR IN NURSING:NURSING SCIENCE I:NURSING AND WOMEN'S HEALTH

Seminar: Analysis, synthesis and evaluation of theories and research in women's health across the life span as consumers and providers in nursing and health care. Akron 8200:840. Prerequisite: NURS 70720

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Nursing

NURS 86391 VARIABLE CONTENT SEMINAR IN NURSING:NURSING SCIENCE II

Seminar: Analysis, synthesis and evaluation of stress, coping and social-support literature in nursing and related disciplines, focusing on the generation and dissemination of knowledge. Akron 8200:840. Prerequisite: NURS 70720

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Nursing

NURS 87091 VARIABLE CONTENT SEMINAR IN NURSING:NURSING SCIENCE II

In-depth focused analysis and synthesis of a substantive area relevant to the student's specific research focus, culminating in a written product for dissemination.

Prerequisite: NURS 86091.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Nursing

Nutrition and Dietetics (NUTR)

NUTR 10011 NUTRITIONAL OUTREACH: A HOW-TO FOR LIFE-LONG HEALTHY EATING

Teaches basic nutrition information for healthy eating including the important nutritional aspects of cooking, shopping, dining and disease prevention related to dietary intake. Prerequisite: none.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

NUTR 23112 INTRODUCTION TO THE PROFESSION: NUTRITION AND DIETETICS

Discusses academic requirements for successful completion of the Bachelor of Science in Nutrition and Dietetics, the history of the profession as well as current credentialing and licensing requirements. Explores the opportunities within the field of dietetics. Teaches methods to document academic, personal and professional skills. Prerequisite: none.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

NUTR 23511 SCIENCE OF HUMAN NUTRITION

Basic concepts and principles in the science of human nutrition, energy balance and weight control, individual nutrient needs, diet selection, nutrition related metabolism and physiological functions, nutritional diseases and current human nutrition controversies. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

Course Attributes: Kent Core-Basic Sciences

NUTR 33512 NUTRITION

Functions, sources and interactions of essential nutrients. Nutritional needs of



family members, methods of meeting these needs, sources of reliable nutrition information. Prerequisites: CHEM 10060 and CHEM 10061 and CHEM 20481; or CHEM 10050 and CHEM 10052; or CHEM 10054.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 33522 APPLIED NUTRITION

Application of nutrition principles including nutrition assessment, charting of medical records, interviewing, counseling, nutrition education, food exchange lists, nutrition surveys and dietary standards. Course is for students in the Nutrition and Dietetics concentration. Prerequisites: NUTR 23511 and PSYC 11762 and SOC 12050.

3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Health Sciences

NUTR 41092 PRACTICUM IN NUTRITION

Directed professional training experiences in the field of nutrition and dietetics. Prerequisite: Permission.

2.000 TO 4.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Health Sciences

NUTR 41093 WORKSHOP IN NUTRITION

Workshop setting dealing with a topic or topics in the field of nutrition and dietetics. Prerequisite: None.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Health Sciences

NUTR 41095 SPECIAL TOPICS IN NUTRITION

Discussion of a major topic within a specific field in nutrition and dietetics. Prerequisite: None.

1.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 41096 INDIVIDUAL INVESTIGATION IN NUTRITION

Independent study in nutrition and dietetics. Prerequisite: Written permission from instructor.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Health Sciences

NUTR 43013 EXPERIMENTAL METHODS IN NUTRITION

Students will gain laboratory experience in the biochemical methods of assessing

nutrition status and the identification of nutrition-related conditions. Principles of experimental design and data analysis and techniques of scientific writing will be applied. Prerequisite: NUTR 33512.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences
Course Attributes: Writing Intensive Course

NUTR 43016 CULTURAL ASPECTS OF FOOD, NUTRITION AND HEALTH

Cultural overview of racial, ethnic and religious population groups residing in the United States and the impact on food habits, nutritional and health status, and counseling concerns. Prerequisite: NUTR 23511.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 43512 ADVANCED NUTRITION I

An exploration into the mechanisms through which macronutrients meet the human biological needs. Fundamental concepts underlying applied human nutrition. Evaluation and interpretation of research findings. Prerequisite: NUTR 33512.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 43513 ADVANCED NUTRITION II

Mechanisms through which nutrients meet the human biological needs. Fundamental concepts underlying applied human nutrition. Evaluation and interpretation of research findings. Prerequisites: NUTR 33512 and BSCI 30030 and CHEM 30284.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 43514 CLINICAL DIETETICS

Application of the principles of normal nutrition to diet and disease effect of pathological conditions on nutritional needs. Also has a lab which provides the opportunity for students to engage in case studies and nutritional assessments.

Prerequisites: NUTR 33522 and NUTR 43513.

4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Health Sciences

NUTR 43515 COMMUNITY NUTRITION

Introduction to nutrition problems and practices in the community. Study of legislation, philosophies, management, nutrition education processes, food assistance programs and agencies

affecting nutritional care. Includes a experiential laboratory component with focuses in planning, implementation, evaluation and outcomes in nutrition education. Prerequisite: NUTR 33512 and 33522.

3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Health Sciences

NUTR 43518 MATERNAL AND CHILD NUTRITION

Nutrition requirements and problems: pregnancy, lactation, childhood and adolescence. Prerequisite: NUTR 33512.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 43520 NUTRITION FOR FITNESS

Course explores the relationship between nutrition, health and exercise. Dietary change for improved health and fitness is discussed as well as the impact of diet and exercise on body composition and weight. Prerequisite: NUTR 33512.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 43521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION

Adapting adequate normal diet in terms of food choices to accommodate prescribed food restriction or bodily dysfunction. Course is not open to students in the Nutrition and Dietetics concentration.

Prerequisite: NUTR 23511.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 43523 NUTRITION AND DIETETICS: PROFESSIONAL PRACTICE

Development of professional awareness. Evaluation of professional growth and formulation of plans for continued growth. Prerequisite: Nutrition and Food (NF) major and senior standing.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 43532 METH AND EXP NUTR OUTREACH

Students learn methods for development and evaluation techniques used for nutrition outreach programming, the role of community nutrition education in public health, and the impact of nutrition programming on disease prevention and management. Students also engage in service learning opportunities in community



nutrition education. Prerequisite: special approval.
3.000 Credit hours
2.500 Lecture hours
0.500 Other hours
Level: Undergraduate
Schedule Types: Field Experience, Lecture
Department: Health Sciences

NUTR 51093 VARIABLE TITLE WORKSHOP IN NUTRITION

Workshop setting dealing with a topic or topics in the field of nutrition and dietetics. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Health Sciences

NUTR 51095 SPECIAL TOPICS IN NUTRITION

Discussion of a major topics within the field of nutrition and dietetics. Prerequisite: Graduate standing.
1.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 51096 INDIVIDUAL INVESTIGATION IN NUTRITION

Independent study in the area of nutrition and dietetics. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Health Sciences

NUTR 53013 EXPERIMENTAL METHODS IN NUTRITION

Student gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing are applied. Prerequisite: nutrition and dietetics (NUTR) majors and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 53016 CULTURAL ASPECTS OF FOOD, NUTRITION AND HEALTH

Cultural overview of racial, ethnic and religious population groups residing in the United States and the impact on food habits, nutritional and health status, and counseling concerns. Prerequisite: NUTR 23511 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 53512 ADVANCED NUTRITION I

An exploration into the mechanisms through which macronutrients meet the

human biological needs. Fundamental concepts underlying applied human nutrition. Evaluation and interpretation of research findings. Prerequisites: nutrition and dietetics (NUTR) major and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 53513 ADVANCED NUTRITION II

Mechanisms through which nutrients meet human biological needs. Fundamental concepts underlying human nutrition. Evaluation and interpretation of research findings. Prerequisites: nutrition and dietetics major (NUTR) and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 53514 CLINICAL DIETETICS

Application of the principles of normal nutrition to diet and disease effect of pathological conditions on nutritional needs. Also included is a lab which provides the opportunity for students to engage in case studies and nutritional assessments. Prerequisites: nutrition and dietetics (NUTR) major and graduate standing.
4.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Health Sciences

NUTR 53515 COMMUNITY NUTRITION

Introduction to nutrition problems and policies in the community. Study of legislation, philosophies, management, nutrition education processes, food assistance programs, and agencies affecting nutritional care. This course also includes an experiential laboratory component with focuses in planning, implementation, evaluation, and outcomes in nutrition education. Prerequisites: nutrition and dietetics (NUTR) major and graduate standing.
3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Health Sciences

NUTR 53518 MATERNAL AND CHILD NUTRITION

Nutrition requirements and problems: pregnancy, lactation, childhood and adolescence. Prerequisite: nutrition and dietetics (NUTR) major and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 53520 NUTRITION FOR FITNESS

Course explores the relationship between nutrition, health and exercise. Dietary change for improved health and fitness is discussed as well as the impact of diet and exercise on body composition and weight. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 53521 FOOD CHOICES FOR PRESCRIBED DIETARY MODIFICATION

Adapting normal diet to accommodate prescribed food restriction. Provides introductory overview of dietary modifications commonly encountered by the elderly. Course not open to students in the Nutrition and Dietetics concentration. Prerequisites: NUTR 23511 and graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 53532 METHODS AND EXPERIENCES IN NUTRITION OUTREACH

Students learn methods for development and evaluation techniques used for nutrition outreach programming, the role of community nutrition education in public health, and the impact of nutrition programming on disease prevention and management. Students also engage in service learning opportunities in community nutrition education. Prerequisite: special approval; and nutrition and dietetics (NUTR) major; and graduate standing.
3.000 Credit hours
2.500 Lecture hours
0.500 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Health Sciences

NUTR 61018 TECHNIQUES OF RESEARCH IN FAMILY AND CONSUMER STUDIES

Introduction to the types of research and methods of data collection applied to a project of the student's choice. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 61091 SEMINAR IN NUTRITION

Seminar covering topics in nutrition and dietetics. Prerequisite: Graduate standing.
2.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

**NUTR 61098 RESEARCH**

Research for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Repeated registration permitted. Prerequisite: Graduate standing. 1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Health Sciences

NUTR 61198 MASTER'S PROJECT

Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Special approval and graduate standing. 2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Health Sciences

NUTR 63199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Special approval and graduate standing. 2.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Health Sciences

NUTR 63299 THESIS II

Thesis II students must continue registration each semester until all degree requirements are met. Prerequisite: HDFS 61199 and graduate standing. 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Health Sciences

NUTR 63519 ADVANCED STUDY OF MICRONUTRIENTS

Intake, digestion and absorption of nutrients. Prerequisite: nutrition and dietetics (NUTR) major and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 63520 MACRONUTRIENT NUTRITION

Metabolic utilization of macronutrients for body processes. Prerequisite: nutrition and dietetics (NUTR) major and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 63521 NUTRITION AND DISEASE:CLINICAL APPLICATIONS

Recent trends and concepts in research and practice of therapeutic dietetics. Prerequisites: nutrition and dietetics (NUTR) major and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 63523 NUTRITION AND GERONTOLOGY

Biochemistry of aging process and the interrelation of gerontology and nutrition. Prerequisites: NUTR 23511 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 63524 PERSPECTIVE ON PREVENTION AND PRACTICE IN COMMUNITY NUTRITION

Explores the relationship between nutritional epidemiology and the research, policies, and programs for successful treatment and prevention of nutrition related disease in the U.S. Also focuses on the behavioral and learning theories used in successful nutrition interventions and grant writing to sustain community programs. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 63525 DIETETIC PRACTICE: COMMUNITY

Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature. Prerequisite: Special approval and graduate standing. 1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 63526 DIETETIC PRACTICE: MANAGEMENT

Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature. Prerequisite: Special approval and graduate standing. 1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 63527 DIETETIC PRACTICE:CLINICAL

Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature.

Prerequisite: Special approval and graduate standing.

1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

NUTR 63591 NUTRITION SEMINAR

Evaluation and interpretation of recent literature in an area of nutrition. Topic selected will be indicated in the schedule of classes each semester offered. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

NUTR 63592 DIETETIC INTERNSHIP

Supervised practice component of dietetic internship. Prerequisite: Special approval and graduate standing. 1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

Occupational Therapy Assistant Technology (OCAT)

OCAT 10000 FOUNDATIONS IN OCCUPATIONAL THERAPY

Introduction to basic theoretical concepts, professional development, profession of occupational therapy, its place in the health care system, and the role and function of the Occupational Therapist and Occupational Therapist Assistant. Prerequisite: none. 2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

OCAT 10001 OCCUPATIONAL THERAPY PRACTICE SKILLS II

Development of the OT practice skills in therapeutic use of occupation, including crafts, activity analysis, and basic documentation. Prerequisite: Occupational therapy assistant technology (OCAT) major. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

OCAT 10002 THERAPEUTIC TECHNIQUES I-PSYCHOSOCIAL

Application of occupational therapy skills and techniques in treatment programs, concerned with psychosocial dysfunction. Prerequisite: Occupational therapy assistant technology (OCAT) major and OCAT 10000 with a minimum grade of C (2.0). 5.000 Credit hours



5.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

OCAT 10003 OCCUPATIONAL THERAPY PRACTICE SKILLS LABORATORY

Development of basic assessment and intervention skills as related to clients with physical and mental disabilities.
Prerequisite: occupational therapist assistant technology (OCAT) majors.
1.000 Credit hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Regional College

OCAT 20000 THERAPEUTIC TECHNIQUES II-PHYSICAL DYSFUNCTION I

Application of occupational therapy skills and techniques in treatment programs, specifically concerned with physical dysfunctions. Prerequisite: Minimum grade of C (2.0) in OCAT 10002 and PTST 10002 and occupational therapy assistant technology (OCAT) major.
5.000 Credit hours
4.000 Lecture hours
3.000 Lab hours
8.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Combined Lecture/Lab
Department: Regional College

OCAT 20001 PROFESSIONAL ISSUES IN OCCUPATIONAL THERAPY

Introduction to professional issues including ethics, licensure, reimbursement issues related to practice settings, research and skills required for performing administrative tasks in the occupational therapy department. Prerequisites: OCAT 10002 and special approval.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

OCAT 20003 OCCUPATIONAL THERAPY PRACTICE SKILLS III

Development of the occupational therapy practice skills including therapeutic use of occupation, leisure, adapting equipment and environment, therapeutic exercises, activity analysis and documentation.
Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

OCAT 20004 THERAPEUTIC TECHNIQUES III-DEVELOPMENTAL DISABILITIES

Application of occupational therapy skills and techniques applied to patients/clients with developmental disabilities.
Prerequisite: OCAT 20000.
3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

OCAT 20005 CLINICAL APPLICATIONS

Under the supervision of personnel in selected health care agencies, students apply knowledge, skills and techniques acquired in prior OCAT courses.
Prerequisites: minimum grade of C (2.0) in OCAT 10000 and 10001 and 10002 and 20000 and 20001 and 20003 and 20004 and 20006; and occupational therapy assistant technology (OCAT) major.
8.000 Credit hours
40.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

OCAT 20006 THERAPY TECHNIQUES IV-PHYSICAL DYSFUNCTION II

Continued application of occupational therapy skills and techniques in treatment programs in the area of physical dysfunction. Prerequisites: minimum grade of C (2.0) in PTST 10002 and OCAT 10002 and OCAT 20000; and occupational therapy assistant technology (OCAT) major.
3.000 Credit hours
2.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

OCAT 21095 SPECIAL TOPICS IN OCCUPATIONAL THERAPIST ASSISTANT TECHNOLOGY

Special topics in Occupational Therapy Assistant Technology; topics announced when scheduled. Prerequisite: occupational therapy assistant technology (OCAT) major.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

OCAT 21096 INDIVIDUAL INVESTIGATION IN OCCUPATIONAL THERAPIST ASSISTANT TECHNOLOGY

Individual study in Occupational Therapy Assistant Technology and related fields; open to OCAT majors. Prerequisite: occupational therapy assistant technology (OCAT) major.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

Office of International Affairs (OIA)

OIA 10095 SPECIAL TOPICS:STUDY ABROAD

This course provides a vehicle for registering students enrolled in study-abroad programs involving approved Kent State University exchanges with foreign universities. Prerequisite: Special approval.

0.000 TO 20.000 Credit hours
0.000 TO 20.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Office International Affairs Department
Course Attributes: Joint Program/ Consortia Agreement

Public Administration (PADM)

PADM 60038 MANAGERIAL ACCOUNTING FOR PUBLIC ADMINISTRATION

Managerial uses of accounting information for planning and control. Emphasis on decision-making in public sector and role of information in making rational choices.
Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION

Various topics offered by the Master of Public Administration program.
Prerequisite: graduate standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60198 RESEARCH IN PUBLIC ADMINISTRATION

Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting requirements if department approves.
Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Political Science

PADM 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Special approval of adviser and graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Political Science

PADM 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: PADM 60199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Political Science

**PADM 60370 PUBLIC MANAGEMENT CONCEPTS AND PRACTICES**

Introductory course for all M.P.A. students. Focus is on "macro-level" understanding of government agencies: institutional context, agency environment linkages, internal dynamics, role in public policy. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION

Introductory graduate course to the theory and study of public administration. Topics include: evolution and characteristics of the modern nation state: core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; major paradigms in organization theory and internal organizational dynamics. Prerequisite: public administration (PADM) major and graduate standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60372 ADMINISTRATIVE THEORY AND BEHAVIOR

Behavioral, bureaucratic, neoclassical and contemporary theories of organization and management are reviewed in an examination of the environment of public agency managers. Prerequisite: PADM 60370 or POL 70370 and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60373 PUBLIC BUDGETING

Study of politics, theories, practices and techniques of public budgeting and financing. Budgeting includes process of preparation adoption and execution of operating and capital budgets. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60374 PUBLIC FINANCIAL MANAGEMENT

Advanced study of the functions of the local government financial management agency and how these functions enhance the productivity and decision-making capacity of the organization. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60375 PUBLIC PERSONNEL ADMINISTRATION

Study of public personnel systems, including underlying system values and current problems with emphasis on skill development and understanding of techniques for public personnel managers. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60376 LABOR MANAGEMENT RELATIONS IN THE PUBLIC SECTOR

This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes. Prerequisite: PADM 60375 and graduate standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT

Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets, and forecasting. Prerequisites: public administration (PADM) major and graduate standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60378 MUNICIPAL MANAGEMENT AND ADMINISTRATION

Detailed analysis of metropolitan complex. Emphasis given to administrative, political, fiscal and legal problems in governing cities. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60379 PROGRAM EVALUATION I

Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different

evaluation formats. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60381 METHODS IN PUBLIC ADMINISTRATION

This course is a graduate-level introduction to statistical methods and their use in public administration. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60382 SEMINAR IN PUBLIC ADMINISTRATION

Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution and literature bearing on the problems. Prerequisite: Special approval and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60384 PUBLIC AGENCY MANAGEMENT

This course is designed to acquaint advanced master's and doctoral candidates majoring in Public Administration with the operation and management of bureaucratic organizations. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60385 ADVANCED STUDIES SEMINAR IN PUBLIC ADMINISTRATION

This seminar is designed at each offering to meet the individualized needs of advanced doctoral candidates majoring in public administration. Prerequisite: Special approval and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT

Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies. Prerequisites: public



administration (PADM) major and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60387 ELECTRONIC GOVERNANCE

An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement, and performance improvement. Through case studies from the United States and across the world, students will become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis. Prerequisites: PADM 60386; public administration (PADM) major; and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60392 INTERNSHIP IN PUBLIC ADMINISTRATION

Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development. Prerequisite: public administration (PADM) major; and graduate standing; and special approval.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Political Science

PADM 60470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE

Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor; protecting the liberty and dignity of the citizen, dimensions of justice; anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization. Prerequisite: public administration (PADM) major and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60471 NONPROFIT LAW

Introduction to legal issues for nonprofit organizations in the United States; including types of IRS tax exempt status, basic requirements for establishing/operating nonprofit organizations specifically in Ohio. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Political Science

PADM 60472 NONPROFIT BOARD EXEC RELATIONS

Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60473 GOVERNMENTAL FINANCIAL ANALYSIS

A laboratory in techniques of governmental financial analysis. Course focuses on how to analyze current financial position to develop financial plans for upcoming years. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60474 HEALTH CARE REIMBURSEMENT

This is an introductory course to familiarize students with private and public sector reimbursement operations and regulations in the United States health care industry. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT

Successful strategies for fundraising and resource development for nonprofit organizations. Students will be exposed to fundraising in practice and will write a resource development plan. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

PADM 60492 CAPSTONE SEMINAR

Capstone course required for all M.P.A. students. Students will complete an approved written project that is analytical and research based. Prerequisite: public administration (PADM) major; and graduate standing; and special approval needed from department.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

PADM 60574 STRATEGIC PLANNING

Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit

organizations. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

Pan-African Studies (PAS)

PAS 10101 ELEMENTARY KISWAHILI I

This course is an introduction to Kiswahili in which students will learn the essentials of speaking, reading and writing the most extensively used language in East Africa.

Prerequisite: None.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 10102 ELEMENTARY KISWAHILI II

Continuation of PAS 10101, aimed at advancing student knowledge and communication skills in Kiswahili by introducing Kiswahili literature, short narratives, proverbs, folktales. Prerequisite: PAS 10101.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 15200 INTRODUCTION TO WEST AFRICAN CULTURES

An interdisciplinary approach, drawing on history, literature and social anthropology and providing students with a basic familiarity with the social, cultural and physical characteristics of West Africa. Its purpose is a general understanding of West Africa through a comparative study of two specific locations, southeastern (forest zone) Nigeria and northern (savannah-sahel) Senegal. The course also explores the diverse African heritage in religion by examining philosophical concepts that appear to be common to all African peoples. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 20101 KISWAHILI III

Continuation of KiswahiliII, aimed at developing knowledge competence and recognition of Kiswahili usage in all forms of Kiswahili literature. Prerequisite: PAS 10102.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 20102 KISWAHILI IV

Continuation of Kiswahili III, aimed at developing knowledge, competence and



recognition of Kiswahili usage in all forms of Kiswahili literature. Prerequisite: PAS 20101.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 20200 RECOVERING THE PAST: KENT TO MEMPHIS

Examines relevance of John Brown, Frederick Loudin and Fisk Jubilee Singers, and Ida B. Wells anti-lynching campaign today. Students travel to local Brown and Loudin sites, Harper's Ferry and Memphis. Prerequisite: none.

3.000 Credit hours

2.000 Lecture hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience, Lecture

Department: Pan-African Studies

PAS 20300 BLACK IMAGES

Examines the historical origins of racial images and anti-black perceptions through newspapers, magazines, songs, plays, literature, textbooks, radio, television, films, comic books, etc. and the role of these images in American culture past and present. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 22000 CREATIVE WRITING IN THE BLACK WORLD

Explores the major aesthetic and cultural issues that have historically shaped creative writing in the black world and begins by exploring the African Griot tradition. Students learn about the African-American tradition in literature as an organic part of the larger Pan-African world. Students are expected to write, perform, critique and produce original works in the modes and performance styles of the global African world. Prerequisite: ENG 11011 or HONR 10197.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 22101 AFRICAN AMERICAN VISUAL ARTISTS

An Afrocentric survey of visual and aural artistry, course examines cultural context and perspectives, mediums of expression, form, style, content and patronage of African American artists from 1800. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 22200 INTRODUCTION TO THE AFRICAN ARTS

Investigation of function of creative forms of artistic expression particular to experiences of Pan-African community at home and abroad. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 23001 BLACK EXPERIENCE I: BEGINNINGS TO 1865

Study and analysis of the African experience prior to, and following the arrival of Africans in the New World. Emphasis on North and South America, Africa and Caribbean. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

Course Attributes: Diversity Course-Global, Kent Core-Humanities, Transfer Module-Humanities

PAS 23002 BLACK EXPERIENCE II: 1865 TO PRESENT

The second of two parts, this course covers the period 1865 to present and is a continuation of PAS 23001. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

Course Attributes: Diversity Course-Domestic, Kent Core-Humanities, Transfer Module-Humanities

PAS 23310 NATIVE AMERICAN CULTURE

Introduces American Indian culture, sovereignty and civil rights. Ensures an understanding of self-determination in the context of the colonization and decolonization process, through the use of American Indian literature, philosophy, politics and other cultural outlets. Being that we all live in a broader community, students also examine historical and contemporary relationships with the African American community and other ethnic communities in the US. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 23500 THE AFROCENTRIC PERSPECTIVE

Introduces the history, philosophy and language of Afrocentricity, a mode of thought and action in which the centrality of African interests, values and perspectives predominate. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 24000 BLACK SHORT STORY

Reading and analysis of short stories by important African, Caribbean and African American writers, as well as an introduction to important themes in Black Literature. Prerequisite: ENG 11011 or HONR 10197.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 24407 CARIBBEAN STUDIES

Focus on people of African descent in the West Indies and their way of life for the cultural contributions made to Pan-African communities. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

Course Attributes: Diversity Course-Global

PAS 24500 JAZZ IMAGINES AFRICA

Students learn how to listen to jazz by exploring cultural and musical elements and gain an understanding of raw musical materials from West Africa, how they arrived in the western hemisphere through the "cultural memory" of Africans in bondage, and how those elements blended with materials from European music to inspire the development of jazz. Students also explore Caribbean "bush reggae," a precursor to what became reggae, which contains some of the same root elements as jazz. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 25200 EAST AFRICAN-KISWAHILI CULTURES

Students learn about the relationship between the Kiswahili language and the cultures of East African peoples, especially those in Malawi, Mozambique, Zaire, Zambia and Zimbabwe. This includes geographical, historical and sociological perspectives and an analysis of common cultural elements (music, literature, proverbs). Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Pan-African Studies

PAS 26000 THE LEGACY OF SLAVERY

Examines the legacy of slavery through literature about the Reconstruction and Jim Crow periods; the writings of Douglass, Washington, Dubois and Garvey; the impact of slavery on modern African American culture; and an investigation of the reparations issue. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate



Schedule Types: Lecture
Department: Pan-African Studies

PAS 26010 THE BLACK REVOLUTION

Under the umbrella of Afrocentrism, this course examines black revolutionary thought in the U.S. from historical, political, sociological and philosophical perspectives; beginning with the advent of the slave trade, it emphasizes the tools, dynamics and strategies used to ensure the success of the black revolution, which is depicted as still ongoing today and having many implications and ramifications for the future. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 30010 AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES

Exploration of philosophical issues in African and African-American thought systems including examination of traditional and emerging approaches to developing conceptions of African and African-American philosophies. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies
Course Attributes: Diversity Course-Domestic

PAS 31092 PRACTICUM IN AFRICAN THEATRE ARTS

Exposes students to fundamental techniques of stage through auditory, visual and physical participation. (repeatable for a maximum of 12 hours. Students are evaluated in performance and related theater activities.) Prerequisite: Permission.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Pan-African Studies

PAS 32001 AFRICAN-AMERICAN LITERATURE TO 1900

Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Walker, Truth, Garnet, Douglass, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar. Prerequisite: ENG 21011 or HONR 10297.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 32002 MODERN AFRICAN-AMERICAN LITERATURE

Study of African-American literature from the early twentieth century to the present. The authors include Toomer, Hughes, Larsen, Wright, Baldwin, Hansberry, Jones, Lorde, Walker, Morrison, Mosley,

Youngblood and Carter. Prerequisite: ENG 21011 or HONR 10297.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 32050 AFRICAN LITERATURES

Examines works of major 20th-century African, African American and Caribbean writers and intellectuals. Authors include Niane, Achebe, Emecheta, Prince, Hurston, Hughes, Césaire, Senghor, Soyinka and many others. Prerequisite: ENG 11011 or HONR 10197.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 33100 AFRICAN AMERICAN FAMILY IN HISTORICAL PERSPECTIVES

Examines social, political, cultural and historical factors that have influenced the development of African-American family organization, from African shores through the American experience. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies
Course Attributes: Diversity Course-Domestic

PAS 33101 AFRICAN AMERICAN HISTORY: SLAVERY TO FREEDOM

Survey of African American history from the colonial period to 1877. Course provides a general knowledge of the social, political and cultural history of African Americans from colonial times to the end of the Reconstruction. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 33102 AFRICAN AMERICAN HISTORY: RECONSTRUCTION TO THE PRESENT

Survey of African American history from 1877 to the present. Course provides a general knowledge of social, political and cultural history of African Americans from the end of the Reconstruction to the present. Prerequisite: PAS 33101 or HIST 31080.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 33110 THE BLACK WOMAN: HISTORICAL PERSPECTIVES

Course surveys the experiences of African-American women throughout various periods of history, and their roles in shaping the social, economic, political and cultural

development of societies. Prerequisite: sophomore standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies
Course Attributes: Diversity Course-Domestic

PAS 33120 THE BLACK MAN: HISTORICAL PERSPECTIVES

Focuses on various roles of the African American man within the context of the African experience and the African diaspora. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 33130 GENDER AND SEXUALITY IN AFRICA AND THE AFRICAN DIASPORA

Using lectures, videos, discussions, readings and application this course explores ways in which gender and sexuality in Africa and the African Diaspora have and can be constructed, performed, articulated and researched. Attention is also paid to the existence of LGBTQ identities within the global black community. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 33171 THE AFRICAN-AMERICAN COMMUNITY

Explores problems of African-American communities: public administration, transportation, health, public finance, crime and justice, geography, black/demography and education. Prerequisite: sophomore standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies
Course Attributes: Diversity Course-Domestic

PAS 33200 ANCIENT AFRICAN CIVILIZATIONS

Examines the history of ancient African civilizations and their contributions to world history. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 33203 KISWAHILI CONVERSATION

A conversation course specifically designed to enhance oral proficiency through further practice in conversation and written Kiswahili as well as discussion of culture based-texts. Prerequisite: PAS 10102.
3.000 Credit hours
3.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 33310 LATINOS, THE AFRICAN DIASPORA AND AMERICAN SOCIETY

Introduction to Latino minorities. Focus on Mexican-Americans, Puerto Ricans and Cubans and African influences on Latino culture. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies
Course Attributes: Diversity Course-Domestic

PAS 33508 CARIBBEAN SOCIAL AND POLITICAL DIRECTIONS

Twentieth-century West Indian social and political development; emphasis on federation, independence and nationalism in the Caribbean community as a sector of the total Pan-African community.

Prerequisite: PAS 24407.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 34000 INTRODUCTION TO AFRICAN WORLD VIEW

Investigates traditional African cosmological world views and aesthetics in global Africa.

Prerequisite: PAS 23001 or PAS 23002.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies
Course Attributes: Diversity Course-Global

PAS 34100 ISLAMIC WEST AFRICA

Familiarizes students with the cultural and historical specificities of Islamic communities in West Africa. Beginning with the introduction of Islam into West Africa in the eighth century, this course takes a multi-disciplinary point of view and covers contemporary political issues as well as historical topics. Students are provided the analytical tools and documentation to understand contemporary religious issues in West Africa and the diversity in expression of thought and practice of Islamic West Africa. Prerequisite: sophomore standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 35100 BLACK SOCIAL AND POLITICAL THOUGHT

Study of the history and nature of social and political thought of African Americans including an overview of various movements and individuals, as well as their strategies and tactics, in the struggle for social change in the U.S. as it relates to black people. Prerequisite: junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 35200 AFRICAN SOCIAL AND POLITICAL SYSTEMS

An African-centered focus on traditional African institutions as these interact with the Jihad Movements, Western European incursion, the slave trade, colonialism, independence movements and contemporary issues. Prerequisite: Junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 37000 ORAL AND WRITTEN DISCOURSES IN PAN-AFRICAN STUDIES

Examines the spoken and written English of African-Americans with some emphasis on mastering consensus English writing skills required in upper-division PAS courses.

Prerequisite: ENG 21011 or HONR 10297.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies
Course Attributes: Writing Intensive Course

PAS 37010 RESEARCH METHODS IN PAN-AFRICAN STUDIES

This course will expose students to the basic components of research methods in Pan-African studies utilizing multidisciplinary approaches. Prerequisite: PAS 37000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 37020 THE MODEL AFRICAN UNION

Students examine role, structure and performance of the African Union in the search for solutions to key economic, social and political-security issues facing Africa. Students attend the annual meeting of the Model African Union Conference in Washington D.C., which is a simulation of proceedings of the African Union, augmented by briefings at African Embassies. Participants gain an understanding of the various determinants, capabilities and constraints shaping the domestic and foreign policies of African countries. Prerequisite: sophomore standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 37100 PAN-AFRICAN WOMEN'S LITERATURE

Introduces students to literary works by African and Caribbean women.

Prerequisite: ENG 11011 or HONR 10197.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 37143 THE AFRICAN-BRAZILIAN EXPERIENCE IN CULTURE AND LITERATURE

Interdisciplinary approach to the study of the African-Brazilian experience, from the colonial period to the present, as reflected in selected literary sociocultural and historical texts. Course taught in English.

Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies
Course Attributes: Diversity Course-Global

PAS 37200 AFRICAN-AMERICAN WOMEN'S LITERATURE

Introduces students to literary works by African-American women. Prerequisite: ENG 11011 or HONR 10197.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 40080 PEDAGOGY FOR PAN-AFRICAN STUDIES

This course introduces both the data and methodology for understanding and presenting Africa, its geography, history, peoples, cultures and ideologies to elementary and secondary students.

Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 40120 CONTEMPORARY ISSUES IN AFRICAN-AMERICAN EDUCATION

This course examines the interrelationship of contemporary issues and the education of people of African descent. Prerequisite: PAS 23002 or PAS 13002.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 41192 PRACTICUM IN AFRICAN AMERICAN AFFAIRS

Guided involvements in urban areas with large African-American populations to provide experience with community service, government agencies, public and private Departments, self-help organizations, etc. Repeatable for a total of 12 hours.

Prerequisite: none.
1.000 TO 12.000 Credit hours
12.000 Other hours



Level: Undergraduate
Schedule Types: Practicum
Department: Pan-African Studies

PAS 42095 SPECIAL TOPICS IN THE LITERATURE OF PAN-AFRICA

Selected topics in orature, drama, poetry, prose, novel and criticism in various African world experiences and settings. This course may be repeated up to 12 hours when topics varies. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 42500 BLACK EDUCATION IN AMERICA

Analyzes the historical, social and political perspectives of educating people of African descent in America. Repeatable for a maximum of 6 hours. Prerequisite: PAS 23002.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 43095 SPECIAL TOPICS IN PAN-AFRICAN LITERATURE, ARTS AND CULTURES

Broadens upper division offerings in holistic study and performance in Pan-African literatures, arts and cultures. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 43200 MALCOLM AND MARTIN

A critical study of the major ideas and doctrines, including religious and theological beliefs, of Malcolm X and Martin L. King and their roles in American history. Prerequisite: junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 43300 AFRO-LATIN AMERICA

Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women. Prerequisite: junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 43320 POLITICS OF CULTURE

This course will address the way in which culture has been politicized. It will look at issues such as cultural relativism and objectivity in anthropological studies with reference to specific peoples and geographic areas. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies
Course Attributes: Writing Intensive Course

PAS 43395 SPECIAL TOPICS IN AFRICAN DIASPORA STUDIES

Study of selected topics related to people of African descent outside of the African continent including, but not limited to the Americas and Europe. This course may be repeated up to 12 hours when the topic varies. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 44095 SPECIAL TOPICS IN CONTEMPORARY AFRICA

(Repeatable for a total of 12 credit hours when topic varies) Study of selected topics related to contemporary Africa. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 45095 SPECIAL TOPICS IN PEDAGOGY IN PAN-AFRICAN STUDIES

Study of selected topics in issues, approaches and styles in the education of people of African descent in African and Western settings. This course may be repeated when the topic varies. Prerequisite: none.
3.000 TO 12.000 Credit hours
3.000 TO 12.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 47010 THEORETICAL APPROACHES TO PAN-AFRICAN STUDIES

A critical analysis of the diverse approaches and underlying principles of Pan-African studies. Prerequisite: Senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 47091 SENIOR SEMINAR IN PAN-AFRICAN STUDIES

Students develop individual topical PAS research papers for presentation before departmental faculty, students and general public. Prerequisite: Pan-African studies (PAS) major with junior or senior standing.
3.000 Credit hours

3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Pan-African Studies
Course Attributes: Writing Intensive Course

PAS 47095 SPECIAL TOPICS IN THEORETICAL AND APPLIED RESEARCH

Selected topics in the intellectual, cultural, political and historical development of Pan-Africanism, its diverse theoretical approaches and multiple applications including the Organization of African Unity. This course may be repeated up to 12 hours when topic varies. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 47150 THE UNDERGROUND RAILROAD

This course examines the Underground Railroad and its impact as an American phenomenon. Related to the Underground Railroad research project under the Institute of African American Affairs. Prerequisite: PAS 23002 or PAS 13002.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 49093 VARIABLE TITLE WORKSHOP IN PAS

S/u graded. Prerequisite: Permission.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Pan-African Studies

PAS 49095 SELECTED TOPICS

Scheduled topic announced. Intended to encourage further study in areas not treated adequately in standard courses. Offered irregularly by available or visiting faculty. Prerequisite: none.
2.000 OR 3.000 Credit hours
2.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Pan-African Studies

PAS 49096 INDIVIDUAL INVESTIGATION

Research in areas of interest not available in departmental courses. Approval by faculty member or chairperson necessary prior to registration. Repeatable once for credit. Prerequisite: Junior or senior standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Pan-African Studies



Physical Education-Basic (PEB)

PEB 10001 ADAPTED PHYSICAL EDUCATION

Physical education foundations and activities adapted to the capabilities and needs of the handicapped student. Recommended by Kent Health Center. Prerequisite: Special approval. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10020 DEVELOPMENT AND CONDITIONING

Introduction to the principles of physical training. Practical application of these principles through a variety of activities. Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10035 LIFETIME FITNESS

The role of exercise in enhancing physical fitness. Lectures on principles of planning scientifically sound exercise programs. Laboratory experiences in personal fitness evaluation and exercise routines. Prerequisite: None. 2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Teaching, Learning and Curriculum Studies

PEB 10036 FITNESS WALKING

Application of sound training methods to achieve personal cardiovascular fitness through participation in a walking program. Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10095 SELECTED TOPICS: PHYSICAL EDUCATION ACTIVITIES

(Repeatable for credit) Prerequisite: none. 1.000 OR 2.000 Credit hours
1.000 OR 2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10102 BEGINNING SWIMMING

No or minimal swimming ability. Prerequisite: Special approval. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 10103 INTERNATIONAL FOLK DANCE

Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10106 DOWNHILL SKIING-SPECIALIZATION

Five days of intensive skiing at commercial establishment with skill instruction and related lectures. Transportation, lodging, rental, lift fees are assessed. Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10125 BASKETBALL

Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10126 BASKETBALL-VARSITY (Repeatable for credit) Controlled registration. Prerequisite: none.

1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10202 INTERMEDIATE SWIMMING

Prerequisite: PEB 10102. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10204 BADMINTON

Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10304 BOWLING

Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10305 BILLIARDS

Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10306 JOGGING

Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10315 INTERMEDIATE BILLIARDS

Prerequisite: PEB 10305. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10325 SOCCER

(Repeatable for credit) Prerequisite: none. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10403 BEGINNING BALLROOM DANCE

Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10404 FENCING-FOIL ONLY

Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10413 LATIN SOCIAL DANCE

Presentation of the DVIDA bronze syllabus for Latin Dances. Introduction of Latin Rhythm dances, which will include the Merengue, Salsa, Rumba, Cha Cha and Samba. Includes proper technique, rhythm of the dance and approximately 10-15 figures for each dance. Prerequisites: none. 1.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Teaching, Learning and Curriculum Studies

PEB 10425 BASEBALL-VARSITY

Controlled registration. Prerequisite: None. 1.000 Credit hours
3.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10426 SOFTBALL-VARSITY

(Repeatable for credit). Controlled registration. Prerequisite: none.

1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10505 VOLLEYBALL

Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10515 BEGINNING WALLYBALL

Basic instruction in Volleyball skill and Wallyball game strategies. Prerequisites: none.

1.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Teaching, Learning and Curriculum Studies

PEB 10604 BEGINNING GOLF

Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10612 LIFEGUARD TRAINING

Individuals beyond the lifesaving level are prepared to assume the responsibilities of lifeguards at pools or at non-surf open water beaches. Prerequisite: PEB 10202.

2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10704 INTERMEDIATE GOLF

Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10724 GOLF-VARSITY

(Repeatable for credit). Controlled registration. Prerequisite: none.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10802 FITNESS SWIMMING

Application of sound training methods to achieve personal fitness through swimming. Prerequisite: PEB 10202.

1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10904 TENNIS

Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10906 RACQUETBALL

Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10907 INTERMEDIATE TENNIS

Prerequisite: PEB 10904.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 10916 INTERMEDIATE RACQUETBALL

A continuation of the basic techniques of racquetball, with an emphasis on refinement of skill performance, and an introduction to intermediate racquetball techniques and strategies that lead to higher levels of performance. Prerequisite: PEB 10906.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Teaching, Learning and Curriculum Studies

PEB 11024 TRACK AND FIELD-VARSITY

(Repeatable for credit). Controlled registration. Prerequisite: none.

1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 11025 CROSS COUNTRY-VARSITY

1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 11104 BEGINNING GYMNASTICS

Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 11124 GYMNASTICS-VARSITY

(Repeatable for credit). Controlled registration. Prerequisite: none.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 11125 FOOTBALL-VARSITY

(Repeatable for credit). Controlled registration. Prerequisite: none.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 11203 HORSEMANSHIP

(Repeatable for intermediate and advanced levels) One hour riding, one hour lecture per week. Riding emphasis is placed upon acquisition of balance and proper form while maintaining control of the horse. Lecture provides knowledge and practice in care of horse. Prerequisite: none.

1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 11325 ADVANCED ICE HOCKEY

To build on the basic hockey fundamentals, leading to advanced team play and game situations providing deeper insight into the game of hockey. Prerequisite: PEB 11245.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 11604 BEGINNING KARATE

Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 11605 INTERMEDIATE KARATE

Must have taken PEB 11604 or have three months of experience in Karate.

Prerequisite: Special approval.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture



Department: Teaching, Learning and Curriculum Studies

PEB 11634 SELF-DEFENSE

Prerequisite: None.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 11664 PILATES

Pilates is a form of fitness endeavors which unite the rhythmic performances and strength with the conditioning principles of the movement sciences. Prerequisites:

none.

1.000 Credit hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Teaching, Learning and Curriculum Studies

PEB 11825 WRESTLING-VARSITY

(Repeatable for credit) Controlled registration. Prerequisite: none.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 11904 BEGINNING ICE SKATING

Prerequisite: None.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 12004 BASIC FIGURE SKATING

Prerequisite: PEB 11904.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 12204 BEGINNING BROOMBALL

Broomball is a recreational ice game played in an ice rink. Skills, tactics and plays are similar to those used in ice hockey.

Prerequisites: none.

1.000 Credit hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Teaching, Learning and Curriculum Studies

PEB 12324 WEIGHT TRAINING

(Repeatable for credit) Prerequisite: none.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 12325 WOMEN'S WEIGHT TRAINING

A basic course in the use of equipment in an average weight room and its application towards the development of strength and power. Prerequisite: None.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 12424 EXERCISE AND WEIGHT CONTROL

The instruction in and practice of exercises based upon proper food selection for the purpose of weight control. Prerequisite: None.

1.000 Credit hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Teaching, Learning and Curriculum Studies

PEB 12425 NAUTILUS EXERCISES

Fundamental skills and knowledge involved in the use of the nautilus for fitness development. Prerequisite: None.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 12604 INTERMEDIATE FENCING

Prerequisite: PEB 10404.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 13003 DANCE EXERCISE

An aerobic program concerned with cardiovascular efficiency, flexibility and strength gain which is achieved through dance movement. Prerequisite: None.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 13006 CROSS-COUNTRY SKIING

Basic through intermediate Nordic skiing technique, waxing, equipment and clothing selection, conditioning, winter safety considerations and trip planning. Student must supply equipment. Prerequisite: Special approval.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 13008 INTERMEDIATE VOLLEYBALL

A continuation of the basic techniques of volleyball, with an emphasis on refinement of skill performance and an introduction to intermediate volleyball techniques and strategies that lead to higher levels of performance. Prerequisite: PEB 10505.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 13010 JUDO-AKIDO

Prerequisite: None.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 13012 BACKPACKING

Trip planning and leadership, equipment and clothing selection, safety considerations, search and rescue, environmental ethics, map and compass, weekend backpacking trip. Student must supply equipment. Prerequisite: Special approval.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 13013 CANOEING

Basic paddling skills learned in a pool environment and then experienced in open lakes and white water situations. Canoe rental fee assessed. Students must be able to swim 100 yards and tread water for five minutes fully clothed. Prerequisite: Special approval.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 13015 FIELD HOCKEY-VARSITY

(Repeatable for credit) Controlled registration. Prerequisite: none.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEB 13016 CYCLING

Prerequisite: None.

1.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

**PEB 13017 VOLLEYBALL-VARSITY**

(Repeatable for credit) Controlled registration. Prerequisite: none.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 13021 WILDERNESS ROUTE FINDING

Map and compass skills are learned to aid in wilderness survival. Easy to difficult courses are set in local parks and forest preserves. Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB**13022 CAMPING**

Basic camping skills including: toolcraft, ropecraft, fire building, cooking, campsite management, equipment selection, safety considerations, environmental ethics, and map and compass for use on weekend trip. Students must supply own clothing and shelter. Prerequisite: Special approval.
2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 13023 ROCK CLIMBING

Combination of lecture, activity classes and weekend field trip. Basic instruction in safe rope handling, knots, conditioning, climbing technique, belaying, anchor systems and rappelling. Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 13024 BEGINNING KAYAKING

Basic paddling skills learned in a pool environment and then experienced in open lakes and whitewater situations. Kayak rental fee assessed. Students must be able to swim 100 yards and tread water for five minutes fully clothed. Prerequisite: Special approval.
2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 13025 BASIC SAILING

Introduction to skills and procedures needed to enjoy the sport of sailing. Boat design and construction, rigging, safety and a hands-on application stressed. Students must be able to swim 100 yards and tread

water for five minutes fully clothed.

Prerequisite: Special approval.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 13027 WINTER BACKPACKING

Adaptation of backpacking skills including trip planning, leadership, equipment, clothing, travel methods, orienteering, safety considerations, search and rescue, and survival skills in the winter environment. Student must supply equipment. Prerequisite: Special approval.
2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEB 13093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT

Workshop in exercise, leisure and sport activities topics vary. Prerequisite: None.
1.000 TO 2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

Physical Education-Professional (PEP)**PEP 15010 INTRODUCTION TO PHYSICAL EDUCATION, FITNESS AND SPORT**

Development of a knowledge base on the roles, foundations, contextual and social issues, and career opportunities as they relate to physical education, physical activity and sport. Experimentation with various fitness tests and assessments that lead to the development of personal fitness plans. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 15011 DEVELOPMENT AND ANALYSIS OF INVASION GAMES

Development, analysis and assessment of game performance skills used in invasion games. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 15013 DEVELOPMENT AND ANALYSIS OF DANCE

Development and analysis of dance skills through experience in folk, social, modern and aerobic dance. Prerequisite: PEP 15017.
2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 15014 DEVELOPMENT AND ANALYSIS OF GYMNASTIC SKILLS

Development and analysis of gymnastic skills through experiences in conventional gymnastics events. Prerequisite: PEP 15017.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 15015 DEVELOPMENT AND ANALYSIS OF GAME PERFORMANCE I

Development and analysis of game performance skills in net games. Emphasis on problem solving strategies and skill execution related to game performance and on effective pedagogy. Prerequisites: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 15016 DEVELOPMENT AND ANALYSIS OF TARGET AND FIELD GAMES

Development and analysis of game performance skills used in target games and field-run-score games. Prerequisites: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 15017 FUNDAMENTAL MOTOR SKILLS

Motor skill development and analysis through practice in fundamental motor movements. Prerequisite: None.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 15018 DEVELOPMENT OF SWIMMING AND AQUATIC SKILLS

Development and analysis of basic aquatic skills, swimming strokes, starts and turns, diving skills, physical fitness principles, aquatic safety and basic rescue techniques. Prerequisite: None.
1.000 Credit hours



1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Teaching, Learning and Curriculum Studies

PEP 15019 DEVELOPMENT AND ANALYSIS OF TRACK AND FIELD

Introduction to basic techniques and rules of track and field events. Consideration of relative conditioning safety and instructional procedures. Prerequisite: None.

1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Teaching, Learning and Curriculum Studies

PEP 15020 FUNDAMENTAL MOVEMENT, GYMNASTICS AND DANCE

Designed to provide teachers and activity leaders with knowledge, skills, and dispositions necessary to teach developmentally appropriate progressions for fundamental movement skills, dance, and gymnastics. Prerequisites: none

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 25001 OFFICIATING SPORT ACTIVITIES

Individual prescriptions for certification in officiating the following sports: basketball, baseball, field hockey, football, gymnastics, etc. Prerequisite: None.

1.000 OR 2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 25025 TEACHING IN PHYSICAL EDUCATION

A seminar focused on the inquiry of teaching and learning of movement activities. A study of the role of the teacher, teacher behaviors, learning environments in movement activities and technology applications in physical education. Field observation hours requires a BCII and FBI background check report. Prerequisite: PEP 15010.

3.000 Credit hours
1.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 25026 OVERVIEW OF OUTDOOR PURSUITS AND ADVENTURE EDUCATION

An overview of outdoor pursuits and adventure education is provided for students preparing to serve students/clients in physically active, outdoor and adventure contexts. Includes a required service

learning component, which involves the design and delivery of quality outdoor education program and/or curricula to children within the local community.

Prerequisite: physical education-professional (PEP) majors.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Teaching, Learning and Curriculum Studies

PEP 25033 LIFESPAN MOTOR DEVELOPMENT

Introduction to motor development across the life span. Special emphasis on description of motor development changes and factors influencing change.

Prerequisite: PSYC 11762.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 25034 EARLY CHILDHOOD MOTOR DEVELOPMENT

Motor development during the early childhood years, with emphasis on factors influencing change. Prerequisite: PSYC 11762. Corequisite: ECED 20163.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 25051 HUMAN ANATOMY

Structural analysis of the major organ systems of humans. Emphasis is placed on osteology, arthrology, myology, nervous system and cardiopulmonary systems.

Lecture and laboratory. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 25059 SPORT IN SOCIETY

Analysis of how sport relates to the social relations and cultural values of United States society. The course is framed by a critical evaluative perspective, examining how social class, ethnicity, race and gender relations contour sport practices.

Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies
Course Attributes: Diversity Course-Domestic

PEP 35010 PSYCHOLOGICAL DIMENSIONS OF MOTOR BEHAVIOR

Psychological factors in exercise, physical activity and sport emphasizing motor

control learning and performance. Laboratory included. Prerequisite: Junior standing and PEP 25068.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies
Course Attributes: Writing Intensive Course

PEP 35040 COACHING FOOTBALL

Techniques of coaching football, including film analysis and offensive and defensive skills and systems. Prerequisite: Not open to freshmen.

2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 35041 COACHING SOCCER

Coaching soccer, including analysis of skills strategy and administrative responsibilities. Prerequisite: Not open to freshmen.

2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 35042 COACHING VOLLEYBALL

Coaching volleyball, including analysis of skills, offensive and defensive strategy and administrative responsibilities. Prerequisite: Not open to freshmen.

2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 35043 COACHING GYMNASTICS

Philosophy, fundamentals, skill analysis, spotting, conditioning, administrative and organizational responsibilities. Prerequisite: Not open to freshmen.

2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 35044 COACHING BASKETBALL

Philosophy, fundamentals, strategy, administrative responsibilities and conditioning. Prerequisite: Not open to freshmen.

2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

PEP 35045 COACHING WRESTLING

Fundamental skill development, skill analysis, diet and weight control, team selection methods and administrative



responsibilities. Prerequisite: Not open to freshmen.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 35047 COACHING TENNIS AND GOLF

Coaching tennis and golf, including skill analysis and organization of tournaments and matches. Prerequisite: Not open to freshmen.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 35048 COACHING BASEBALL AND SOFTBALL

Coaching techniques in softball and baseball, including analysis of basic skills, position play and offensive and defensive strategies. Prerequisite: Not open to freshmen.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 35049 COACHING TRACK AND FIELD

Coaching techniques relative to track and field events. Principles of organization for track and field meets. Prerequisite: Not open to freshmen.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 35052 EDUCATIONAL DANCE/GYMNASTICS

Analysis of the sequential development of dance and gymnastic skills from foundational movement patterns to conventional skills. Laboratory experiences in teaching children. Prerequisite: PEP 45051.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 35065 HISTORY AND PHILOSOPHY OF SPORT AND PHYSICAL ACTIVITY

Historical and philosophical foundations of sport and physical education; a study of factors influencing pedagogical, curricular and evaluation decisions in sport and physical education programs today. Prerequisite: PEP 15010.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

Course Attributes: Writing Intensive Course

PEP 35079 SPORTS PHYSIOLOGY

Application of physiological principles of human performance to sports/exercise.

Focus on examples for teaching and coaching. Prerequisite: PEP 25051.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Teaching, Learning and Curriculum Studies

PEP 35084 MOTOR SKILL ANALYSIS

Designed to assist teachers, coaches, and physical activity specialists in the analysis of motor skills. Students study the applications of performance and biomechanical principles to enhance skill and tactical performance in physical activity settings. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 43093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT

Workshop in exercise, leisure and sport studies topics vary. Prerequisite: None.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Teaching, Learning and Curriculum Studies

PEP 43098 RESEARCH IN EXERCISE, LEISURE AND SPORT

Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration. Repeatable to 12 credit hours. Prerequisite: Junior standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Research

Department: Teaching, Learning and Curriculum Studies

PEP 45015 PSYCHOLOGY OF COACHING

Psychological factors affecting athletic performance, with particular attention to practice factors, personality, motivation and problem athletes. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 45020 CONTEMPORARY ATHLETIC COACHING

A focus on the philosophy, skills strategies and tactics of coaching within contemporary society. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 45021 ORGANIZATION AND ADMINISTRATION OF ATHLETICS

An understanding of theories necessary to run an efficient athletic department at all levels, including budgeting, leadership and administrative theory, organizational structure, personnel, legal issues and facilities. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 45037 ADAPTED PHYSICAL EDUCATION

An academic and practical approach to physical education for specific disorders. Field based experience (10 hours).

Prerequisite: junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 45051 ELEMENTARY SCHOOL PHYSICAL EDUCATION METHODS

Approaches to teaching in elementary school physical education. Focusing on sequential curriculum development and on learning outcomes in three domains.

Prerequisites: PEP 25033 and PEP 25025 and PEP 15013-15017 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 45053 ELEMENTARY SCHOOL PHYSICAL EDUCATION CONTENT

Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Prerequisites: PEP 25033 and PEP 25025 and PEP 15013-15017 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

PEP 45058 SECONDARY SCHOOL PHYSICAL EDUCATION METHODS

Approaches to teaching in secondary school physical education. Focus on



sequential curriculum development and on learning outcomes in three domains.

Prerequisites: PEP 25033 and PEP 25025 and PEP 15013-15017 and special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Teaching, Learning and

Curriculum Studies

PEP 45059 SECONDARY SCHOOL PHYSICAL EDUCATION CONTENT

Introduction and development of content, management and organizational skills related to sports and activities utilized in secondary school physical education.

Prerequisites: PEP 25033 and PEP 25025 and PEP 15013-15017 and special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Teaching, Learning and

Curriculum Studies

PEP 45091 SENIOR SEMINAR

Investigation and study of current problems, topics and/or issues in physical education exercise or sport. Prerequisite: Senior standing.

1.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Teaching, Learning and

Curriculum Studies

PEP 45092 INTERNSHIP IN PHYSICAL EDUCATION

Supervised full-time experience providing knowledge of overall operations for an agency or sports program in an approved setting. Fifty (50) work hours per credit hour. Repeatable for a total of 8 hours. Prerequisite: Senior standing and special approval.

2.000 TO 8.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

PEP 45096 INDIVIDUAL INVESTIGATION IN PHYSICAL EDUCATION

Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration. Repeatable to 6 credit hours. Prerequisite: Junior standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Teaching, Learning and

Curriculum Studies

PEP 45392 INTERNSHIP IN MAINSTREAMED PHYSICAL ACTIVITY

Supervised experience with school of Exercise, Leisure and Sport Motor

Development Center participants of all ages and abilities in a mainstreamed situation; assessment, program planning, instruction, report preparation. Prerequisite: None.

1.000 TO 12.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

PEP 45490 INTERNSHIP SEMINAR

Discussion of procedures and expectations for internships in exercise programming.

Repeatable for a total of 3 hours.

Prerequisite: PEP 35075 and physical education professional (PEP) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

PEP 45692 INTERNSHIP IN ATHLETIC COACHING

Supervised experience in organized sport focused upon the duties of a coach; can be at one or more levels (youth, Department, college, professional) and sports.

Repeatable. 60 contact hours per credit.

Prerequisite: PEP 45020 and special approval.

2.000 TO 4.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Teaching, Learning and

Curriculum Studies

PEP 46095 SPECIAL TOPICS IN PHYSICAL EDUCATION

Selected topics in physical education dependent upon interest. Prerequisite: None.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

PEP 49525 INQUIRY INTO PROFESSIONAL PRACTICE IN PHYSICAL EDUCATION

Seminar focused on development of those skills and knowledge which enable future teachers to engage in effective reflective, collaborative and ethical professional practice. Prerequisite: Admission to advanced study. Corequisite: PEP 49526.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

PEP 49526 STUDENT TEACHING IN PHYSICAL EDUCATION

This experience provides for a full semester of student teaching in a school setting that is corequisite with PEP 49525 Inquiry into Professional Practice in Physical Education.

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/ internship will take place.

Prerequisite: Special approval and admission to advanced study. Corequisite: PEP 49525.

12.000 Credit hours

12.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and

Curriculum Studies

Public Health (PH)

PH 10000 EXPLORING CAREERS IN PUBLIC HEALTH

Provides an overview of the diverse career opportunities available in the field. Explores various public health issues from the perspectives of public health professionals from the core disciplines in public health: social behavioral sciences, environmental health, health policy and management, epidemiology and biostatistics. Students learn about how public health professionals approach issues and the types of professional roles and activities they bring to addressing each issue. Prerequisite: none.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 10001 INTRODUCTION TO PUBLIC HEALTH

An overview of the evolution and practices of the dynamic field of public health in the United States and globally. Students are introduced to the structure and functions of public health organizations and public health practice. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 10002 INTRODUCTION TO GLOBAL HEALTH

An overview of the biological, social and environmental contributors to health and diseases in populations around the world, including case studies of selected infectious diseases, nutritional deficiencies and health effects of environmental change.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health



PH 20001 ESSENTIALS OF EPIDEMIOLOGY

Students are introduced to the strategies adopted by public health professionals to study distribution and identification of important biologic, social and environmental determinants of diseases and health-related states in specific populations. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 20003 PUBLIC HEALTH POLICY AND DECISION-MAKING

An introductory survey of the formulation to implementation of public health policies for various public health issues, and the use of practical administrative tools such as strategic planning, use of economic evaluation tools and decision analysis.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 20005 SOCIAL AND BEHAVIORAL SCIENCE THEORIES IN PUBLIC HEALTH

An overview of the contributions of the social and behavioral sciences to human health behavior, including application of studies in the area of health promotion, health protection and disease prevention in public health. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 20006 ENVIRONMENTAL HEALTH SCIENCE

A survey of issues involving water quality; waste management, including hazardous waste; air quality and management; food protection; and other environmental topics. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 20010 INTRODUCTION TO PUBLIC HEALTH INFORMATICS

Provides an overview of informatics principles applied in public health settings. Issues addressed include definitions, approaches, competencies, applications and the national health information network. Topical areas are digital literacy, electronic communication, system development, information use, project management, procurement, accountability, research, data standards, databases, human resource management, and confidentiality and security. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture
Department: Public Health

PH 20012 SANITATION AND HAZARDOUS MATERIALS MANAGEMENT

Safety and sanitation practices and regulations pertinent to hazardous materials in the environment. Emphasis is on management of hazardous materials released to the environment and their use to control public health problems.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 30002 INTRODUCTORY BIOSTATISTICS

An introduction to statistical methodology in the field of public health. Students learn the statistical skills to read scientific articles, understand the statistical methods used and interpret the results on their own.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 30003 PUBLIC HEALTH STRATEGIES

Case studies of various strategies used in addressing various public health issues are discussed within an evaluative framework.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 30004 PUBLIC HEALTH RESEARCH

Approaches involved in defining public health problems and steps involved in conducting research about these problems. Students are introduced to how to evaluate published public health research.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 30007 PREVENTION AND CONTROL OF DISEASES

Provides an overview of concepts involved in biological mechanisms of disease at cell, individual and community levels, provides insight into strategies used in preventing and controlling diseases at the population and/or community level within this framework. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 30012 COMMUNICABLE DISEASES

A survey of communicable diseases of global public health significance, including the epidemiology and forensics associated with disease transmission, vaccination strategies and practices, and human responses to infectious disease. Students are introduced to infectious disease pathogens and the practices and procedures for their surveillance, handling and control. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 40092 INTERNATIONAL HEALTH PRACTICUM

A supervised internship in global/international health. Prerequisite: PH 10002; and junior or senior standing.

6.000 Credit hours

6.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Public Health

PH 40195 SPECIAL TOPICS IN PUBLIC HEALTH

Subject varies depending on the emerging issue. Prerequisite: junior or senior standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Public Health

PH 40196 INDIVIDUAL INVESTIGATION IN PUBLIC HEALTH

(repeatable for maximum 6 credits)

Individual undergraduate investigation or research on specific public health issues.

Prerequisite: junior or senior standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Public Health

PH 41092 FIELD EXPERIENCE IN MEETING THE BASIC HEALTH AND HUMAN NEEDS

Provides practical skills in simple, affordable appropriate technologies that can offer solutions for meeting basic health and human needs in the developing world at the household and community levels.

Technologies are organized into five modules: 1) food, agriculture, and nutrition; 2) water and sanitation; 3) alternative household energy; 4) primary health care; and 5) community development needs and resource assessment. All five modules cover appropriate technologies that while meeting the basic needs have significant impact on health of the individuals and communities. Principles of participatory community development and sensitivity to cross-cultural, gender, and ecological issues are emphasized throughout the



training. Prerequisite: special approval.
3.000 Credit hours
8.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Public Health

PH 44000 HEALTH DISPARITIES

Understanding the factors involved in health disparities at the national and global level, and the impact of health disparities on public health. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Public Health
Course Attributes: Writing Intensive Course

PH 44003 ENVIRONMENTAL HEALTH ISSUES IN LOW- AND MIDDLE-INCOME COUNTRIES

Covers the important environmental health issues of concerns in low- and middle-income countries and appropriate intervention strategies. Topics include clean drinking water and sanitation, indoor air pollution, outdoor air pollution, environmental management, sustainability and health. Prerequisite: PH 20006.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Public Health

PH 44092 INTERNSHIP IN PUBLIC HEALTH

Capstone internship experience in a public health setting under the supervision of a site preceptor and university supervisor. Students gain experience in public health work. Prerequisite: senior standing and special approval.
3.000 TO 6.000 Credit hours
3.000 TO 6.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Public Health

PH 60172 CULMINATING EXPERIENCE SEMINAR

Seminar component of the Practicum Experience; course must be taken at the same time as the Practicum Experience; students prepare a final portfolio and seminar presentation integrating theory and practice. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

PH 60192 PRACTICUM EXPERIENCE

Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency. Prerequisite: graduate standing. Corequisite: PH 60172.
3.000 Credit hours

20.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Public Health

PH 80199 DISSERTATION I

Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours. SU grading; IP permissible. Prerequisite: doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Public Health

PH 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met. Prerequisite: doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Public Health

Philosophy (PHIL)

PHIL 11001 INTRODUCTION TO PHILOSOPHY

An introduction to the diverse methods and subject matters of philosophy. Primary philosophic sources from varied philosophical traditions focus on at least three philosophic areas. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Diversity Course-Global, Kent Core-Humanities, TAG
Arts/Humanities, Transfer Module-Humanities

PHIL 11009 PRINCIPLES OF THINKING

The place of argument in reasoning and the place of reasoning in thinking are explored through a concentration on argument -its structure, expression, function and limits. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Kent Core-Additional

PHIL 21001 INTRODUCTION TO ETHICS

This course considers what constitutes ethics, not just which specific acts or act-kinds are ethical, using at least three primary philosophic sources from varied ethical traditions. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

Course Attributes: Diversity Course-Global, Kent Core-Humanities, TAG
Arts/Humanities, Transfer Module-Humanities

PHIL 21002 INTRODUCTION TO FORMAL LOGIC

Techniques of formal logic, traditional and contemporary. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Kent Core-Mathematics and Critical Reasoning, Transfer Module-Mathematics

PHIL 21003 ETHICS IN CONTEMPORARY CONTEXTS

Interactions of ethical standards, sanctions, conflicts and priorities within contemporary contexts (legal, political, religious, professional, commercial, individual) having their own standards and logic. Prerequisite: PHIL 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 21020 COMPARATIVE RELIGIOUS THOUGHT I

Philosophic study of the religious impulse as it manifests itself variously in beliefs, practices and institutions ranging over times and cultures. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Diversity Course-Global, Kent Core-Humanities, Transfer Module-Humanities

PHIL 21021 COMPARATIVE RELIGIOUS THOUGHT II

Comparative exploration in depth of three religions, selected to represent a Western religion, an Eastern religion and a religion often overlooked in traditional comparative studies. Prerequisite: PHIL 21020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Diversity Course-Global, Kent Core-Humanities, Transfer Module-Humanities

PHIL 30005 CONTEMPORARY MORAL ISSUES

Philosophical examination of at least four issues currently debated in society-- e.g. gun control, capital punishment, welfare and economic disparity, pornography, affirmative action, excluding ethical issues in medicine. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate



Schedule Types: Lecture
Department: Philosophy

PHIL 30015 MEDICINE AND MORALITY

A philosophical exploration of at least three issues related to current medical practices, which may include ethical, religious, legal and clinical aspects. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 30025 ENVIRONMENTAL PHILOSOPHY

A philosophical examination of conceptions of nature and the relations between human beings and the natural world with emphasis on exploring connections between environment and science, the humanities, law, religion, ethics or aesthetics. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 31001 ANCIENT GREEK PHILOSOPHY

Examination of issues of Greek thought from its inception through Plato and Aristotle. Prerequisite: At least one of PHIL 11009 or PHIL 21002 or PHIL 31045; and at least one of PHIL 11001 or PHIL 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Writing Intensive Course

PHIL 31002 MEDIEVAL PHILOSOPHY

Examination of issues in medieval thought; for instance, the existence and nature of God and the problem of universals. Prerequisite: At least one of PHIL 11009 or PHIL 21002 or PHIL 31045; and at least one of PHIL 11001 or PHIL 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Writing Intensive Course

PHIL 31003 CONTINENTAL RATIONALISM

Selections from Rationalists; for instance Descartes, Spinoza and Leibniz. Prerequisite: At least one of PHIL 11009 or PHIL 21002 or PHIL 31045; and at least one of PHIL 11001 or PHIL 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Writing Intensive Course

PHIL 31004 BRITISH EMPIRICISM

Selections from British Empiricists; for instance, Locke, Berkeley and Hume.

Prerequisite: At least one of PHIL 11009 or PHIL 21002 or PHIL 31045; and at least one of PHIL 11001 or PHIL 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Writing Intensive Course

PHIL 31005 GERMAN CRITICAL PHILOSOPHY

Selections from Kant and post-Kantians. Prerequisite: At least one of PHIL 11009 or PHIL 21002 or PHIL 31045; and at least one of PHIL 11001 or PHIL 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Writing Intensive Course

PHIL 31006 NINETEENTH-CENTURY PHILOSOPHY

Selections from works of 19th-century philosophers. Prerequisite: At least one of PHIL 11009 or PHIL 21002 or PHIL 31045 and at least one of PHIL 11001 or PHIL 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Writing Intensive Course

PHIL 31010 TWENTIETH-CENTURY PHILOSOPHY

Selections from the most influential Departments of thought within 20th-century philosophy: existentialism, pragmatism, logical positivism, analytic philosophy, phenomenology. Prerequisite: At least one of PHIL 11009 or PHIL 21002 or PHIL 31045; and at least one of PHIL 11001 or PHIL 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Writing Intensive Course

PHIL 31020 AMERICAN PHILOSOPHY

Selections from principal American philosophers from Colonial times to present. Prerequisite: At least one of PHIL 11009 or PHIL 21002 or PHIL 31045; and at least one of PHIL 11001 or PHIL 21001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Writing Intensive Course

PHIL 31030 EXISTENTIALISM

Development and themes of existentialism. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Philosophy

PHIL 31035 PHILOSOPHY AND JUSTICE

Consideration of topics and issues in the general sphere of justice from different perspectives by classical and contemporary philosophers. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Diversity Course-Domestic

PHIL 31040 WOMEN AND PHILOSOPHY

Examines the influences and contributions of women to philosophy and the influences philosophy has had on women, either historically or currently. Prerequisites: one course in philosophy and junior standing .
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Diversity Course-Domestic

PHIL 31045 FORMAL LOGIC

Study of first order predicate calculus with identity and function symbols. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 31060 AESTHETICS

Investigation of concepts such as the aesthetic object and creative expression, and critique of certain theories designed to solve various problems of aesthetic evaluations. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 31065 PHILOSOPHIES OF RELIGIOUS EXPERIENCE

Examination of phenomena of religious experience, its structure, ramifications and expression in myth and ritual. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 31068 RELIGIOUS THOUGHT IN CONTEMPORARY CONTEXTS

An inquiry into religious convictions, beliefs, symbolizations and texts in contemporary contexts in which religious considerations influence conception, valuation or interpretation of a contemporary situation and how contemporary contexts influence religious thought. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 31070 AFRICAN AND AFRICAN-AMERICAN PHILOSOPHIES

Exploration of philosophical issues in African and African-American thought systems including examination of traditional and emerging approaches to developing conceptions of African and African-American philosophies. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Diversity Course-Domestic

PHIL 31072 AMERICAN INDIAN PHILOSOPHIES

Examination of philosophical issues and themes in American Indian world views with attention given to the reflections of contemporary native scholars. Prerequisites: one course in philosophy and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Diversity Course-Domestic

PHIL 31075 PHILOSOPHY AND MULTICULTURALISM

Philosophical examination of various approaches to multiculturalism, in terms of definitions, justifications and relevant alternative views regarding the scope and nature of multiculturalism. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy
Course Attributes: Diversity Course-Global

PHIL 32091 SEMINAR: PHILOSOPHICAL REFLECTIONS

Exploration of philosophic literature for contrasting or developing man. Conceptions of human beings. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Philosophy

PHIL 40005 HEALTH CARE ETHICS

Ethical problems in health care critically assessed, and consideration of how these specific ethical problems illuminate the ethical enterprise. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 40093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY

S/u graded. Prerequisite: Permission.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Philosophy

PHIL 41010 PROBLEMS IN THE PHILOSOPHY OF RELIGION

Philosophical examination of issues and problems presented by various writers in philosophy of religion. Prerequisite: At least one of PHIL 31001 to PHIL 31020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41015 PHILOSOPHICAL STUDY OF RELIGION

A philosophical examination of pivotal issues, Departments and theorists in the study of religion and the future of comparative studies. This course pursues the academic study of religion at an advanced level. Prerequisite: At least one of PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41020 SOCIAL PHILOSOPHY

Philosophic examination of theories of societies as proposed by various writers. Prerequisite: one of the following PHIL 31001, 31002 31003, 31004, 3105, 31006, 31010 or 31020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41025 PHILOSOPHY OF LAW

Critical examination of the nature and function of law. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41030 ETHICAL THEORY

Intensive and in-depth study of some aspects of ethical theory in the philosophical tradition. Prerequisite: At least one of PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41035 PHILOSOPHY OF SCIENCE

Analysis of methodological problems in scientific disciplines. Prerequisite: one of the following PHIL 31001, 31002, 31003, 31004, 3105, 31006, 31010 or 31020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41040 EPISTEMOLOGY

Study of various theories of knowledge in the philosophical tradition. Prerequisite: one of the following PHIL 31001, 31003, 31004, 31005, 31006, 31010 or 31020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41042 TOPICS IN METAPHYSICS

Philosophical examination of at least three issues in metaphysics with an emphasis on the historical debates that give rise to them and their contemporary contexts. Prerequisite: At least one of PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41045 METALOGIC

Consideration of various metatheorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus, and incompleteness of the theory of arithmetic. Prerequisite: PHIL 31045.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41048 METAETHICS

Examination of the semantics, ontology and modes of justification employed in ethical theories. Prerequisite: PHIL 31001 or 31002 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

PHIL 41050 PHILOSOPHICAL ANALYSIS

Study of major problems in analytic philosophy and subsequent philosophical analysis. Prerequisite: At least one of PHIL 31001 or PHIL 31002 or PHIL 31003 or PHIL 31004 or PHIL 31005 or PHIL 31006 or PHIL 31010 or PHIL 31020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Philosophy

**PHIL 41055 PHENOMENOLOGY**

Investigation of phenomenological movement, its methods and the scope and course of its applications in philosophy and other disciplines. Prerequisite: one of the following PHIL 31001, 31002, 31003, 31004, 3105, 31006, 31010 or 31020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

PHIL 41060 PRAGMATISM

Detailed reading from classical American pragmatists along with some attention to later interpretations and explorations of current re-appraisals and developments. Prerequisite: one of the following PHIL 31001, 31002, 31003, 31004, 3105, 31006, 31010 or 31020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

PHIL 41065 PLATO

Detailed examination of selected Platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

Prerequisite: one of the following PHIL 31001, 31002, 31003, 31004, 3105, 31006, 31010 or 31020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

PHIL 41070 ARISTOTLE

Detailed examination of selected works of Aristotle, with some attention given to Aristotle's development and dismissal of certain pre-Socratic and Platonic themes. Prerequisite: one of the following PHIL 31001, 31002, 31003, 31004, 3105, 31006, 31010 or 31020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

PHIL 41076 CONTINENTAL PHILOSOPHY

Investigation of some figure, issue or theme in continental philosophy from Descartes to present. Prerequisite: one of the following PHIL 31001, 31002, 31003, 31004, 3105, 31006, 31010 or 31020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

PHIL 41077 BRITISH AND AMERICAN THOUGHT

Detailed investigation of a figure or issue in British or American philosophy.

Prerequisite: one of the following PHIL

31001, 31002, 31003, 31004, 3105, 31006, 31010 or 31020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

PHIL 41080 PHILOSOPHY AND ART IN THE MODERN AGE

Exploring, with emphasis on the modern age, philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

Course Attributes: Writing Intensive Course

PHIL 41085 PHILOSOPHY AND CULTURAL THEORY

A discussion of the philosophical bases of aspects of cultural theory such as post colonialism and the negritude movement.

Prerequisite: one of the following PHIL

31001, 31002, 31003, 31004, 3105, 31006, 31010 or 31020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

PHIL 41086 PHILOSOPHY OF EXPRESSION

Concentrated study of expression through philosophy of literature, of music, of body, of language or of symbols. Prerequisite: one of the following PHIL 31001, 31002, 31003, 31004, 31005, 31006, 31010 or 31020.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

PHIL 49995 SPECIAL TOPICS

(repeatable when content varies)

prerequisite permission.

2.000 OR 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Philosophy

PHIL 49996 INDIVIDUAL INVESTIGATION

(repeated registration permitted with departmental approval prior to registration) . Prerequisite: Departmental permission prior to registration.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Philosophy

PHIL 49999 SENIOR HONORS PROJECT

(repeated registration permitted with departmental approval prior to registration) thesis or other independent study or

creative project. Prerequisite: Departmental permission before registration.

2.000 OR 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Senior Project/Honors

Thesis

Department: Philosophy

PHIL 50005 HEALTH CARE ETHICS

Ethical problems in health care critically assessed and consideration of how these specific ethical problems illuminate the ethical enterprise. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 50093 VARIABLE TITLE WORKSHOP IN PHILOSOPHY

Prerequisite: Graduate standing.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Philosophy

PHIL 51010 PROBLEMS IN THE PHILOSOPHY OF RELIGION

Philosophical examination of issues and problems presented by various writers in philosophy of religion. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51015 PHILOSOPHICAL STUDY OF RELIGION

A philosophical examination of pivotal issues, Departments and theorists in the study of religion and the future of comparative studies. This course pursues the academic study of religion at an advanced level. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51020 SOCIAL PHILOSOPHY

Philosophical examination of theories of society as proposed by various writers. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51025 PHILOSOPHY OF LAW

Critical examination of nature and function of law. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Philosophy

PHIL 51030 ETHICAL THEORY

Intensive and in-depth study of some aspects of ethical theory in the philosophical tradition. Prerequisite:

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51035 PHILOSOPHY OF SCIENCE

Analysis of methodological problems in scientific disciplines. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51040 EPISTEMOLOGY

Study of various theories of knowledge in the philosophical tradition. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51042 TOPICS IN METAPHYSICS

A philosophical examination of at least three issues in metaphysics with an emphasis on the historical debates that give rise to them and their contemporary contexts. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51045 METALOGIC

Consideration of various metatheorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus and incompleteness of the theory of arithmetic. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51048 METAETHICS

Examination of the semantics, ontology, and modes of justification employed in ethical theories. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51050 PHILOSOPHICAL ANALYSIS

Study of major problems in analytic philosophy and subsequent philosophical analysis. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51055 PHENOMENOLOGY

Investigation of phenomenological movement, its methods and the scope and course of its applications in philosophy and other disciplines. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51060 PRAGMATISM

Detailed reading from classical American pragmatists along with some alert to later interpretations and exploration of current reappraisals and developments. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51065 PLATO

Detailed examination of selected platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51070 ARISTOTLE

Detailed examination of selected works of Aristotle, with some attention given to Aristotle's development and dismissal of certain pre-Socratic and Platonic themes. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51076 CONTINENTAL PHILOSOPHY

Investigation of some figure, issue or theme in continental philosophy from Descartes to present. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51077 BRITISH AND AMERICAN PHILOSOPHY

Detailed investigation of a figure or issue in British or American philosophy. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51080 PHILOSOPHY AND ART IN THE MODERN AGE

Exploring, with emphasis, on the modern age philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory. Prerequisite:

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51085 PHILOSOPHY AND CULTURAL THEORY

A discussion of the philosophical bases of aspects of cultural theory such as post colonialism and the negritude movement.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 51086 PHILOSOPHY OF EXPRESSION

Concentrated study of expression through philosophy of literature, of music, of body, of language or of symbols. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 59995 SPECIAL TOPICS

When content varies, may be repeated for credit. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 59996 INDIVIDUAL INVESTIGATION

Repeated registration permitted with departmental approval. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Philosophy

PHIL 60191 GRADUATE SEMINAR

Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or one or more philosophical issues. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 60201 SEMINAR: HISTORY OF PHILOSOPHY

Intensive primary-source reading and critical appreciation of the significant works of one or more historical philosophers



(other than Plato and Aristotle) or one or more historical philosophical issues.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 61000 RESPONSIBLE CONDUCT OF RESEARCH

Introduction into professional and ethical conduct of research. Topics include codes and laws governing research, identification of scientific misconduct, plagiarism, authorship and intellectual properties, ethical animal and human research.

Prerequisite: graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 61050 PHILOSOPHY OF LANGUAGE

Critical examination of nature and function of language especially in relation to mental function and development. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 61055 SEMEIOTICS

An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 61056 HERMENEUTICS

Critical appreciation of the theories and practices of interpretation comprehended according to certain classical, current and emergent philosophic styles and traditions. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 61084 RESEARCH ETHICS

Exploration of methodologies, the treatment of human and animal research subjects, responsible authorship practices and the role of the scientist in the moral community. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 61085 METAETHICS

Examination of the conceptions, presuppositions and value judgments of

ethical theories. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 69194 COLLEGE TEACHING OF PHILOSOPHY

Discussion, critique and development of concepts to guide the teaching of philosophy including concepts of procedures and tactics for planning, pacing, presenting, representing and reviewing philosophic texts figures and issues. Repeated registration permitted.

Prerequisite: graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 69199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Departmental special approval before registration and graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Philosophy

PHIL 69299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: PHIL 69199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Philosophy

PHIL 69995 SPECIAL TOPICS

Selected topics in Philosophy. Repeated registration possible. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 69997 COLLOQUIUM

Student, faculty and invited guests participate in conference-like contexts to present and discuss issues of current philosophic interest. Repeated registration permitted. Prerequisite: Graduate standing.

1.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Philosophy

PHIL 69998 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting

degree requirements. Prerequisite: Special approval and graduate standing.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Philosophy

Physics (PHY)

PHY 11030 SEVEN IDEAS THAT SHOOK THE UNIVERSE

Description of major revolutionary physical concepts and their implications for understanding the physical universe. Not counted toward physics major. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

PHY 11660 PHYSICAL SCIENCE

A course integrating basic concepts in chemistry, physics and astronomy.

Prerequisite: None.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Physics

Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

PHY 12000 INTRODUCTORY PHYSICS SEMINAR

To provide a nurturing course for new physics majors, ideally to be taken in their first semester as majors. The course includes a journal club component, informational talks by industrial physicists and training in a select group of essential skills and tools for future work in the physics program. Prerequisite: None.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Physics

PHY 12111 PHYSICS FOR HEALTH TECHNOLOGIES

Basic physics applied to health technologies: measurement techniques, force and motion of solids and fluids, energy, heat wave phenomena, electricity. Students taking this course should be in a health technologies major. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 12201 TECHNICAL PHYSICS I

Introduction to principles of physics: mechanics. Two-hour lecture/recitation and



two- hours laboratory weekly. Prerequisite: MATH 11010; and pre- or corequisite: MATH 11022 or MATH 19001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Physics

PHY 12202 TECHNICAL PHYSICS II

Introduction to principles of physics: fluids, thermodynamics, electricity and magnetism. Three-hour lecture/recitation and two-hour laboratory weekly. Prerequisite: PHY 12201.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Physics

PHY 12411 INTRODUCTION TO COMPUTER HARDWARE

Laboratory-lecture course designed to introduce the computer scientist to the digital logic and memory circuits and the concepts fundamental to computer hardware. Two hours lecture, two hours lab weekly. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
0.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Physics

PHY 13001 GENERAL COLLEGE PHYSICS I

Principles of mechanics, heat and sound. Three-hour lecture, one-hour recitation. Pre- or corequisite: MATH 11022 or 12002 or 12021. Corequisite: PHY 13021.
4.000 Credit hours
3.000 Lecture hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Lecture, Recitation
Department: Physics
Course Attributes: Kent Core-Basic Sciences, TAG Science, Transfer Module-Natural Sciences

PHY 13002 GENERAL COLLEGE PHYSICS II

Principles of electricity and magnetism, optics and modern physics. Three hours lecture and one hour recitation weekly. Prerequisite: PHY 13001 or PHY 23101. Corequisite: PHY 13022.
4.000 Credit hours
3.000 Lecture hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Lecture, Recitation
Department: Physics
Course Attributes: Kent Core-Basic Sciences, TAG Science, Transfer Module-Natural Sciences

PHY 13011 COLLEGE PHYSICS I

Principles of classical physics, primarily mechanics. Three-hour lecture and one-hour recitation weekly. This is a flexibly scheduled course that meets concurrently

with PHY 13001 for the first half of the regular term. Pre/corequisite: MATH 11022 or 12002 or 12012 or 12021. Corequisite: PHY 13021.
2.000 Credit hours
3.000 Lecture hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

PHY 13012 COLLEGE PHYSICS II

Principles of classical physics, primarily electricity and magnetism. Three-hour lecture and one-hour recitation weekly. This is a flexibly scheduled course that meets concurrently with PHY 13002 for the first half of a regular term. Prerequisite: PHY 13001 or PHY 13011 or PHY 23101.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

PHY 13021 GENERAL COLLEGE PHYSICS LABORATORY I

Introductory lab to accompany PHY 13001 or PHY 13011. Corequisite: PHY 13001 or PHY 13011.
1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Physics
Course Attributes: Kent Core-Basic Sciences

PHY 13022 GENERAL COLLEGE PHYSICS LABORATORY II

Introductory lab to accompany PHY 13002 or PHY 13012. Corequisite: PHY 13002 or PHY 13012.
1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Physics
Course Attributes: Kent Core-Basic Sciences

PHY 20095 SPECIAL TOPICS

Topic announced when scheduled. Prerequisite: None.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 21040 PHYSICS IN ENTERTAINMENT AND THE ARTS

Descriptive introduction to physics underlying selected forms of art and entertainment. Examples are drawn from music visual arts and communications media. Not counted toward requirements for major in physics. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

PHY 21041 PHYSICS IN ENTERTAINMENT AND THE ARTS LABORATORY

Laboratory component of PHY 21040, two hours weekly. Pre- or corequisite: PHY 21040.
1.000 Credit hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Physics
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

PHY 21430 FRONTIERS IN ASTRONOMY

Modern description of astrophysical observations, the results of these observations and the physical principles based on them. Not counted toward requirements for major in physics. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

PHY 21431 FRONTIERS IN ASTRONOMY LABORATORY

Laboratory component of PHY 21430 Frontiers in Astronomy. This course may be used to satisfy the Kent Core requirements. Pre- or corequisite: PHY 21430.
1.000 Credit hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Physics
Course Attributes: Kent Core-Basic Sciences

PHY 22564 INTRODUCTION TO MATERIALS PHYSICS

Survey of mechanical and electronic properties of materials with application in science and technology. Metals, semiconductors, ceramics, polymers and liquid crystals, and other special materials will be addressed. Prerequisite: PHY 23102.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 22811 FORENSIC PHYSICS

Fundamental physical concepts are related to various forensic activities including evidence analysis, ballistics, auto collision analysis and radioactive materials



accidents. Three hours lecture, two hours lab weekly. Prerequisite: None.

4.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 23101 GENERAL UNIVERSITY PHYSICS I

Principles of mechanics, heat and sound at calculus level. Four hours lecture/recitation and three hours lab weekly. Pre- or corequisite MATH 12002.

5.000 Credit hours
4.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Physics
Course Attributes: TAG Science

PHY 23102 GENERAL UNIVERSITY PHYSICS II

Principles of electricity, magnetism, light and modern physics at calculus level. Four hours lecture/ recitation and three-hour lab weekly. Prerequisite: PHY 13001 or PHY 23101. Pre/corequisite: MATH 12003.

5.000 Credit hours
4.000 Lecture hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Physics
Course Attributes: TAG Science

PHY 24001 ASTRONOMY

Astronomical measurements and their instruments, the solar system of planets, the sun and stars, spectra, radiation, evolution of stars, galaxies, concepts of cosmology. Course not counted toward physics major. Prerequisite: MATH 11010. Pre/corequisite MATH 11022.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics
Course Attributes: Kent Core-Basic Sciences, Transfer Module-Natural Sciences

PHY 30020 INTERMEDIATE PHYSICS LABORATORY

(Repeated registration permissible)
Experiments in classical and modern physics are selected to accompany and to supplement junior-level physics courses.

Prerequisite: 10 hours of physics.
2.000 Credit hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Physics
Course Attributes: Writing Intensive Course

PHY 30095 SPECIAL TOPICS

Topic announced when scheduled.
Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Physics

PHY 32511 ELECTRONICS

"Hands-on" course to give the student a working knowledge of analog electronics and of AC and DC circuits typically used by the scientist. Prerequisite: MATH 12002 and; PHY 13002 or PHY 23102.

4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Physics

PHY 32562 AERODYNAMICS

Multispeed aerodynamics including topics in fluid mechanics, airfoil and wing theory, stability and control, performance and aerodynamic loads. Prerequisite: PHY 13002 or PHY 23102.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 34000 COSMOLOGY

This course will provide a quantitative introduction to modern cosmology, from the Big Bang to the formation of the first stars. Subjects include the evolution of the geometry and temperature of the universe its composition and select aspects of general relativity. Prerequisite: PHY 36001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 35101 CLASSICAL MECHANICS

Modern description of mechanics including both Lagrangian and Hamilton formulations, with applications to central force, motion, coupled oscillations, rigid body motion and motion in non- inertial reference frames.

Prerequisite: PHY 23102 and MATH 32052.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 36001 INTRODUCTORY MODERN PHYSICS

Special theory of relativity, Rutherford-Bohr model of atom, quantization of light, matter waves, Schroedinger equation, hydrogen atom, electron spin, multi-electron atoms.

Prerequisite: MATH 12003 and PHY 23102.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 36002 APPLICATIONS OF MODERN PHYSICS

Survey of applications of twentieth century physics. Topics include molecular bonding, conducting and insulating solids, degenerate matter, quantum condensates,

subatomic and sub-nuclear particle physics, cosmology. Prerequisite: PHY 36001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 40020 ADVANCED PHYSICS LABORATORY

Advanced experiments in classical and modern physics are selected to accompany and to supplement senior-level physics courses. Repeated registration permitted. Prerequisites: PHY 30020; and pre- or corequisite: 6 credit hours of 40000-level physics courses.

2.000 Credit hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Physics
Course Attributes: Writing Intensive Course

PHY 40060 PHYSICAL LITERATURE

Study of current or topical literature.

Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 40092 INTERNSHIP IN PHYSICS

Supervised capstone experience in physics at a national laboratory, a research university in industry or at a local research site. Repeat registration permitted. No more than 3 credit hours may be applied toward the major electives for physics majors.

Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Physics

PHY 40093 VARIABLE TITLE WORKSHOP IN PHYSICS

Workshop individually designed to provide instruction and training in specific areas of physics. S u graded. Prerequisite: Permission.

1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Physics

PHY 40095 SPECIAL TOPICS

Topic announced when scheduled.
Prerequisite: Permission.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Physics

PHY 40096 INDIVIDUAL INVESTIGATION

Individual projects for physics majors.
Prerequisite: 20 hours of physics; and special approval of department chairperson.
1.000 TO 6.000 Credit hours
3.000 Other hours



Level: Undergraduate
Schedule Types: Individual Investigation
Department: Physics

PHY 40099 SENIOR HONORS THESIS

Thesis for departmental, general or university honors must be 1-10 hours with continuous registration throughout the senior year beginning in the summer prior to the senior year. Students taking this course must consult with their department and the Honors College and receive approval prior to the first semester of the senior year. Prerequisites: Honors senior standing and special approval.

1.000 TO 10.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Senior Project/Honors

Thesis

Department: Physics

Course Attributes: Honors Course

PHY 40195 SPECIAL TOPICS

Topic announced when scheduled.

Prerequisite: Permission.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 41010 BIOPHOTONICS

Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples.

Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy. Prerequisite: special approval.

3.000 Credit hours

1.000 Lecture hours

6.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Physics

PHY 42500 PHYSICS OF LABORATORY DEVICES AND TECHNIQUES

Physics of semiconducting devices such as diodes, transistors; laboratory techniques using temperature control, vacuum pumps; X-ray, neutron, light and electron scattering. Prerequisite: PHY 36001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 42512 GENERAL ELECTRONIC INSTRUMENTATION

Laboratory-based course in digital and analog electronics, computer interfacing and computer-based technique all within context of applications in measurements, signal-to-noise enhancement and control instrumentation. Lecture two hours, lab four hours weekly. Prerequisite: PHY 32511.

4.000 Credit hours

3.000 Lecture hours

0.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Physics

PHY 44600 INTRODUCTION TO BIOLOGICAL PHYSICS

Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.

Prerequisite: PHY 23102.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 44802 ASTROPHYSICS

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), non-optical astronomies, and description of various cosmological theories. Prerequisite: MATH 12003.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 45201 ELECTROMAGNETIC THEORY

Properties of electric and magnetic fields developed by vector methods. Treatment on static fields in vacuum and matter.

Theory of classical electromagnetic fields with emphasis on dynamic fields.

Prerequisites: MATH 32052 and PHY 23102.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 45301 THERMAL PHYSICS

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering.

Prerequisite: PHY 36001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 45401 MATHEMATICAL METHODS IN PHYSICS

Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations. Prerequisite: MATH 32052.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture
Department: Physics

PHY 45403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES

Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques. Prerequisite: MATH 12003 and PHY 23102.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 45501 ELECTROMAGNETIC WAVES AND MODERN OPTICS

Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopic techniques based on modern optics. Prerequisite: PHY 45201.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 46101 QUANTUM AND ATOMIC PHYSICS

Bohr theory, wave mechanics, wave packets. Applications to barriers, oscillators, hydrogen atom, multi-electron atoms, X-rays, molecular spectra. At level of Eisberg-Resnick's quantum physics. Prerequisite: PHY 36001. Pre- or corequisite: MATH 32052.

4.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 46301 INTRODUCTION TO NUCLEAR PHYSICS

Introduction to the concepts of nuclear physics including basic properties of the atomic nucleus, experimental techniques, nuclear models and reactions, nuclear fission and fusion, and elementary particles. Prerequisite: PHY 36001. Pre- or corequisite: MATH 32052.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Physics

PHY 46401 INTRODUCTION TO SOLID STATE PHYSICS

Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research. Prerequisite: PHY 36002.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate



Schedule Types: Lecture
Department: Physics

PHY 50020 ADVANCED PHYSICS LAB

Advanced experiments in classical and modern physics are selected to accompany and to supplement graduate-level physics courses. Repeated registration allowed.

Prerequisite: Graduate standing.

2.000 Credit hours

3.000 Lab hours

Level: Graduate

Schedule Types: Laboratory

Department: Physics

PHY 50093 VARIABLE TITLE WORKSHOP IN PHYSICS

Workshops individually designed to provide instruction and training in specific areas of physics. Prerequisite: Special approval and graduate standing.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Physics

PHY 50095 SPECIAL TOPICS

Topic announced when scheduled.

Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 50096 INDIVIDUAL INVESTIGATION

Individual projects for physics graduate students. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Physics

PHY 50195 SPECIAL TOPICS

Topic announced when scheduled.

Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 51010 BIOPHOTONICS

Interdisciplinary overview of the basics of biophotonics; application of biophotonic techniques to probe biological samples. Introduction to the foundations of optics and photonics and how the molecular structure of organic molecules translates into unique photonic properties and targeting in biological cells or tissue. Preparation of fluorescent materials, advanced spectroscopy and cell visualization using regular and confocal fluorescence microscopy. Prerequisite: special approval and graduate standing.

3.000 Credit hours

1.000 Lecture hours

6.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab
Department: Physics

PHY 52500 PHYSICS OF LABORATORY DEVICES AND TECHNIQUES

Physics of semiconducting devices such as diodes, transistors; laboratory techniques using temperature control, vacuum pumps; x-ray, neutron, light and electron scattering.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 52512 GENERAL ELECTRONIC INSTRUMENTATION

Laboratory-based course in digital and analog electronics. Computer interfacing and computer-based technique all within context of applications in measurements signal-to-noise enhancement and control instrumentation. Lecture two hours, laboratory four hours weekly. Prerequisite: Graduate standing.

4.000 Credit hours

3.000 Lecture hours

0.000 Lab hours

Level: Graduate

Schedule Types: Laboratory, Lecture

Department: Physics

PHY 54291 PLANETARIUM OPERATION AND PROGRAMMING

Planetarium operation, advantages and limitations. Slides, technamation, special effects and programs for K-12 grades, public and special groups. Prerequisite: Special approval and graduate standing.

1.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Physics

PHY 54600 INTRODUCTION TO BIOLOGICAL PHYSICS

Introduces ideas essential to physical understanding of biological systems. Topics include: introduction to molecular components of the cell; statistical mechanics and transport in biological systems; selected topics in biophysics.

Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 54802 ASTROPHYSICS

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), non optical astronomies, and a description of various cosmological theories. Prerequisite: MATH 12003.

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 55201 ELECTROMAGNETIC THEORY

Properties of electric and magnetic fields developed by vector methods. Treatment of static fields in vacuum and matter. Theory of classical electromagnetic fields with emphasis on dynamic fields. Prerequisite: graduate standing.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 55301 THERMAL PHYSICS

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering. Prerequisite: PHY 36001 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 55401 MATHEMATICAL METHODS IN PHYSICS

Consolidation of vector analysis, curvilinear coordinate systems, tensors, matrix algebra, vector spaces, common groups in physics, calculus of residues, contour integration, methods for differential equations in physics; additional topics important for physics selected from special functions, integral equations, calculus of variations. Prerequisite: MATH 32052 and graduate standing.

4.000 Credit hours

4.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 55403 DATA ANALYSIS AND COMPUTATIONAL PHYSICS TECHNIQUES

Study of uncertainties in physical measurements. Data reduction and error analysis techniques. Monte Carlo simulation method. Least-squares fits to data. Basic computational physics techniques. Prerequisite: MATH 12003 and PHY 23102 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 55501 ELECTROMAGNETIC WAVES AND MODERN OPTICS

Interactions between light and matter from both a macroscopic and microscopic perspective; producing and controlling light devices and spectroscopies on techniques based on modern optics. Prerequisite: PHY 55201 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

**PHY 56101 QUANTUM AND ATOMIC PHYSICS**

Bohr theory, wave mechanics, wave packets. Application to barriers, oscillators, hydrogen atoms, multi-electron atoms, x-rays, molecular spectra. At level of Eisberg-Resnick's quantum physics. Prerequisite: Special approval and graduate standing. 4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 56301 INTRODUCTION TO NUCLEAR PHYSICS

Introduction to the concepts of nuclear physics including basic properties of the atomic nucleus, experimental techniques, nuclear models and reactions, nuclear fission and fusion, and elementary particles. Prerequisite: PHY 36001 and graduate standing. Pre- or corequisite: MATH 32052. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 56401 INTRODUCTION TO SOLID STATE PHYSICS

Fundamental unifying concepts and experimental techniques needed to understand thermal, electrical and optical properties of ions and electrons in solids. Special topics of current research. Prerequisite: PHY 36002 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 60091 PHYSICS SEMINAR

Discussion of current literature or of original research in physics. Participation by students, faculty and guests. Prerequisite: Graduate standing. 1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Physics

PHY 60093 VARIABLE TITLE WORKSHOP IN PHYSICS

Workshops individually designed to provide instruction and training in specific areas of physics. Prerequisite: Graduate standing. 1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Physics

PHY 60094 COLLEGE TEACHING OF PHYSICS

Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 60098 RESEARCH

Research or individual investigation. Credits earned may be applied toward meeting degree requirements if department approves. Repeated registration permitted. Prerequisite: Graduate standing. 1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Physics

PHY 60199 THESIS I

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Special approval of adviser and graduate standing. 2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Physics

PHY 60295 ADVANCED TOPICS

Selected special topics of current research interest. Prerequisite: Special approval and graduate standing. 1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: PHY 60199 and graduate standing. 2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Physics

PHY 60395 ADVANCED TOPICS

Selected special topics of current research interest. Prerequisite: Special approval and graduate standing. 1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 64101 ADVANCED PROBLEM SOLVING IN PHYSICS

The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized. Prerequisite: PHY 6/75101 or PHY 6/75203 or PHY 6/76161 or PHY 6/75301 or departmental instructor approval. Graduate standing. 3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 65101 CLASSICAL MECHANICS

Lagrange's equations, variational principles two body central force problems rigid body motion Hamilton's equations canonical transformations Hamilton Jacobi theory small, oscillations. Prerequisite: Permission and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 65203 CLASSICAL ELECTRODYNAMICS I

Introduction to electrostatics, boundary value problems multipoles electrostatics of macroscopic media magnetostatics time varying fields Maxwell's equations conservation laws. Prerequisite: Permission and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 65204 CLASSICAL ELECTRODYNAMICS II

Plane electromagnetic waves, simple radiating systems, scattering, special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung. Prerequisite: PHY 6/75203 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 65301 STATISTICAL MECHANICS I

An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint. Prerequisite: Graduate standing. 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 66161 QUANTUM MECHANICS I

Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert-space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

**PHY 66162 QUANTUM MECHANICS II**

Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations. Prerequisite: PHY 6/76161 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 66201 PARTICLE PHYSICS

Discussion of particle detectors, invariance principles, and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of field theory, the Standard Model and selected topics of current interest. Prerequisite: PHY 6/76162 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 66302 NUCLEAR PHYSICS

Theory of nuclear processes including properties of nuclear quantum states, two-body forces, nuclear structure and models, nuclear reactions and nuclear radiation physics. Prerequisite: PHY 56101 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 66303 ADVANCED NUCLEAR PHYSICS

Advanced concepts and theories of nuclear interactions. Topics include the nucleon interaction, nuclear structure, reactions, nuclear matter and strong interactions of elementary particles. Prerequisites: PHY 66302 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 66401 SOLID STATE PHYSICS I

Crystalline state, with emphasis on wave propagation, zone and band theory, phonons. Applications to electrical and thermal conductivities, specific heats, optical, dielectric and magnetic properties. Prerequisite: PHY 56101 or PHY 6/76161.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 66402 SOLID STATE PHYSICS II

Covers several topics including conduction in metals, dielectric and ferroelectric properties, the origin of magnetism, phenomenological and BCS descriptions of superconductivity, elastic theory and

semiconductor physics. Prerequisite: PHY 6/76401 and PHY 6/76161; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 66403 ADVANCED CONDENSED MATTER PHYSICS

Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems and the experimental methods that probe them. Prerequisites: PHY 66402 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 68401 LIQUID CRYSTAL PHYSICS

The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications.

Prerequisite: Graduate standing in physics or chemical physics.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 70093 VARIABLE TITLE WORKSHOP IN PHYSICS

Workshops individually designed to provide instruction and training in specific areas of physics. Prerequisite: Doctoral standing.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Physics

PHY 70094 COLLEGE TEACHING OF PHYSICS

Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching. Prerequisite: Doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 70095 SPECIAL TOPICS

Topic announced when scheduled.

Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 70195 SPECIAL TOPICS

Topic announced when scheduled.

Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 70295 ADVANCED TOPICS

Selected special topics of current research interest. Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 70395 ADVANCED TOPICS

Selected special topics of current research interest. Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 74101 ADVANCED PROBLEM SOLVING IN PHYSICS

The course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized.

Prerequisite: PHY 6/75101 or PHY 6/75203 or PHY 6/76161 or PHY 6/75301; or departmental instructor approval. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 75101 CLASSICAL MECHANICS

Lagrange's equations, variational principles, two-body central force problems, rigid body motion, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, small oscillations. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 75203 CLASSICAL ELECTRODYNAMICS I

Introduction to electrostatics, boundary value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Physics

PHY 75204 CLASSICAL ELECTRODYNAMICS II

Plane electromagnetic waves, simple radiating systems, scattering special theory of relativity, relativistic dynamics, radiation



of moving charges, Bremsstrahlung.
Prerequisite: PHY 6/75203 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 75301 STATISTICAL MECHANICS I

An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint. Prerequisite: Doctoral standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 75302 STATISTICAL MECHANICS II

Classical and quantum statistics with emphasis on Fermi and Bose systems. Introduction to approximate methods including cluster expansions and virial coefficients. Applications to critical phenomena. Prerequisite: PHY 6/75301 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 76161 QUANTUM MECHANICS I

Fundamental concepts of non-relativistic quantum mechanics. Solution of simple one dimensional problems. Abstract Hilbert space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum. Prerequisite: Permission and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 76162 QUANTUM MECHANICS II

Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single particle wave equations. Prerequisite: PHY 6 76161 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 76163 QUANTUM MECHANICS III

Second quantization and field theory formalism are developed for the many-particle system. Topics include the electron gas and nuclear matter. Prerequisite: PHY 6 76162 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Physics

PHY 76201 PARTICLE PHYSICS

Discussion of particle detectors, invariance principles and conservation laws fundamental interactions quark model of hadrons basic concepts of field theory the standard model and selected topics of current interest. Prerequisite: PHY 6 76162 or permission. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 76302 NUCLEAR PHYSICS

Theory of nuclear processes including properties of nuclear quantum states, two body forces nuclear structure and models nuclear reactions and nuclear radiation physics. Prerequisite: PHY 56101 or equivalent or permission. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 76303 ADVANCED NUCLEAR PHYSICS

Advanced concepts and theories of nuclear interactions. Topics include the nucleon on interaction nuclear structure reactions nuclear matter and strong interactions of elementary particles. Prerequisite: PHY 6 76302 and PHY 76163. Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 76401 SOLID STATE PHYSICS I

Crystalline state, with emphasis on wave propagation zone and band theory phonons. Applications to electrical and thermal conductivities specific heats optical dielectric and magnetic properties. Prerequisite: PHY 56101 or PHY 6 76161 doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 76402 SOLID STATE PHYSICS II

Covers several topics including conduction in metals, dielectric and ferroelectric properties the origin of magnetism phenomenological and BCS descriptions of superconductivity elastic theory and semiconductor physics. Prerequisite: PHY 6 76401 and PHY 6 76161 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 76403 ADVANCED CONDENSED MATTER PHYSICS

Advanced theories of solids, fluids superfluids magnetic ferroelectric and liquid crystal systems and the experimental methods that probe them. Prerequisite: PHY 6 76402 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 78401 LIQUID CRYSTAL PHYSICS

The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications. Prerequisite: Doctoral standing in physics or chemical physics.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Physics

PHY 80091 PHYSICS SEMINAR

Discussion of current literature or of original research in physics. Participation by students faculty and guests. Prerequisite: Doctoral standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Physics

PHY 80097 PHYSICS COLLOQUIUM

Presentation by invited speakers of research and other topics on graduate level followed by discussion period. Regular attendance of all physics majors expected. Three or more meetings each semester as arranged. Prerequisite: Doctoral standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Colloquium
Department: Physics

PHY 80098 RESEARCH

Research or individual investigation for doctoral students who have not yet passed their candidacy exams. Credit earned may be applied toward the degree if the department approves. Prerequisite: Special approval and doctoral standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Physics

PHY 80199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Special approval and doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Physics

**PHY 80299 DISSERTATION II**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met.

Prerequisites: PHY 80199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Physics

PHY 88191 CHEMICAL PHYSICS SEMINAR

Discussions of current literature or of original research in chemical physics. Participation by students faculty and guests. Prerequisite: Doctoral standing.

1.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Physics

Plastics Technology (PLCT)**PLCT 12000 INTRODUCTION TO PLASTICS**

Description of various plastics, outline of polymer chemistry, identification tests, polymerization, molecular growth and molecular weight, extrusion, injection molding, thermoforming, compression molding and related topics. Prerequisite: None.

4.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PLCT 12003 REINFORCED PLASTICS

Comprehensive review of resin systems and fiber reinforcement for use in production of FRP products. Fabrication procedures. Comparative properties.

Prerequisite: PLCT 12000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PLCT 12004 PROPERTIES OF PLASTIC MATERIALS

Study of the mechanical, electrical, optical and environmental characteristics of various plastics. Making and testing of plastic materials: impact testing, chemical testing, heat stability and electrical testing.

Prerequisite: PLCT 12000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PLCT 12005 RADIATION POLYMER TECHNOLOGY I

This course is an introduction to the application of radiation processing

technologies on plastic materials. Systems equipment and mechanisms are discussed.

Prerequisite: PLCT 12000 and PLCT 12003.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

PLCT 22000 ASSEMBLY AND FINISHING OF PLASTICS

Bonding, printing, electroplating, vacuum metalizing, hot stamping, painting, engraving, welding, sanding and machining.

Prerequisite: PLCT 12000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PLCT 22001 PLASTICS PRODUCT DESIGN

Plastics product design case studies from the plastics industry, from the initial concept of function through part design, tooling, production and quality assurance.

Prerequisite: PLCT 12000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PLCT 22002 PLASTICS TOOL DESIGN

Design of molds and tools for plastics processing emphasizing part design, mold design, production aids for after-finishing, quality control. Prerequisite: PLCT 12000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PLCT 22005 PLASTICS MANUFACTURING

Study of plastics processing technologies including molding and extrusion processes.

Behavior of plastic materials under heat and pressure will be studied. Prerequisite: PLCT 12000.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

PLCT 22006 RADIATION POLYMER TECHNOLOGY II

Comprehensive review of structure, synthesis, transformation, and radiation processing of polymeric materials.

Prerequisite: PLCT 12005.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

PLCT 22007 POLYMER IRRADIATION TECHNOLOGY

Detailed investigation in radiation processing of polymeric materials including actual processing of materials with a 5 MeV accelerator. Prerequisite: PLCT 12003 and CHEM 10052.

4.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

Paralegal Studies (PLST)**PLST 18000 INTRODUCTION TO PARALEGAL STUDIES**

An overview of the legal system and the role of a paralegal professional. Includes legal terminology, types of laws, research, litigation, interviewing and office management. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

PLST 28001 LEGAL RESEARCH AND WRITING

In-depth analysis of the legal research process, development of legal writing skills, opportunities to utilize research and writing skills are integrated into the course.

Prerequisite: PLST 18000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

PLST 28003 FAMILY LAW AND PROCEDURE

Designed to acquaint the student with family law substance and practice. Included definitions, terminology, topical areas and the philosophy underlying family law practice. Prerequisite: PLST 18000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

PLST 28004 PRINCIPLES AND PRACTICE OF LITIGATION

Introduction to the rules of civil procedure, statutes of limitation and discovery.

Includes the role of the legal assistant in preparing for litigation. Prerequisite: PLST 18000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

PLST 28007 ESTATE AND PROBATE ADMINISTRATION

A study of legal principles applicable to wills, organization and jurisdiction of probate court, estate administration in



probate and tax considerations in estate administration. Prerequisite: PLST 18000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

PLST 36792 INTERNSHIP IN PARALEGAL

Work experience under direction of supervising faculty member in the following entities: private law firms, legal service/legal aid offices, law departments or corporations and government agencies. Prerequisite: PLST 18000 and 28001 and 28004.
3.000 TO 12.000 Credit hours
21.000 TO 84.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Sociology

PLST 38002 CONTRACT LAW

This course is intended to provide students with an in-depth analysis of the law pertaining to contract formation, resolution of contract disputes and the impact of the uniform commercial code on traditional contract theory. Prerequisite: PLST 18000 and 28001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

PLST 38003 ADMINISTRATIVE LAW AND PROCESS

Substantive and procedural aspects of administrative law. Topics include the regulation of public utility, transportation agencies, employment, food and drugs, and environment. Prerequisite: 9 credit hours of paralegal studies (PLST) coursework, including PLST 18000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

PLST 38004 LEGAL ETHICS AND PROFESSIONAL RESPONSIBILITY

This course will introduce students to the types of ethical dilemmas that they will face once in the work force; to the ethical rules developed by the American Bar Association; and to methods for researching the answers to ethical dilemmas. Prerequisite: PLST 18000 and 28001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

PLST 38005 TORT LAW

Focuses on tort and personal injury law. Topics include intentional injuries to person and property, negligence, strict liability, product liability, defenses and immunity, and ethics. Prerequisite: PLST 18000 and 28001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

PLST 38006 APPLIED LEGAL RESEARCH AND LITIGATION

Case analysis and preparation of argumentative memorandum. Includes writing of factual memoranda, file summaries and advocacy letters. Prerequisite: PLST 18000 and 28001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

PLST 47111 CIVIL LAW AND PROCEDURE

Substantive and procedural aspects of civil law with particular emphasis on civil actions arising out of breaches of criminal law.

Prerequisite: JUS 12000 or PLST 18000; and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

PLST 48300 LAW OF CORPORATIONS AND OTHER ASSOCIATIONS

This course will cover the formation, operation and dissolution of various kinds of business organizations. Subjects covered include: sole proprietorships, corporations, partnerships, the law of agency and employment agreements. Prerequisite: PLST 18000 and 28001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

PLST 48400 INTELLECTUAL PROPERTY LAW

The purpose of this course is to acquaint students with the fundamentals of intellectual property ("IP") law. Students will be introduced to the four primary fields within intellectual property: trademarks, copyrights, patents and trade secrets. At the conclusion of the course students will fully understand how IP rights are acquired, registered (if necessary), protected, transferred and infringed. Moreover, students will be introduced to emerging IP topics and introduced to international developments in the IP fields. Prerequisite: PLST 18000 and 28001.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

Political Science (POL)

POL 10001 INTRODUCTION TO POLITICAL SCIENCE

This course introduces the history and structure of political science, including its relationship to neighboring disciplines. This course thus asks what does it mean to study politics? What does it mean to study politics scientifically? What are the consequences of different conceptions of politics? Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 10004 COMPARATIVE POLITICS

(Equivalent to HONR 15497) This course introduces the different institutional structures of governance (e.g., parliamentary versus presidential systems) in a range of different states for different types of regimes (e.g. democratic and authoritarian) and at the international level. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Global, Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

POL 10100 AMERICAN POLITICS

(Equivalent to HONR 15297) This course covers the basic elements of politics at the national level in the United States:

structures, processes, behaviors, institutions, policies. Special emphasis is given to conflicting theories of power as they apply to different economic, sexual and racial groups. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

POL 10300 PUBLIC POLICY

This course provides a survey of basic public policy concepts and processes within an historical context. It incorporates applied work to bridge conceptual understanding and empirical cases. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 10301 DIVERSITY IN AMERICAN PUBLIC POLICY

This course focuses on the electoral and institutional aspects of sex, race, age and social class as those classifications function as both causes and effects of voting behavior and public law. Prerequisite: None.



3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-
Domestic, Kent Core-Social Sciences,
Transfer Module-Social Sciences

POL 10500 WORLD POLITICS

(Equivalent to HONR 15397) A practical, theoretical introduction to a study of systematic patterns in international relations. Includes analysis of rules, instruments, processes, decision-making factors, conflict resolution. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Global,
Kent Core-Social Sciences, TAG
Social/Behavior Sciences, Transfer Module-
Social Sciences

POL 30001 POLITICAL METHODS

This course is designed to bring students to a basic level of "statistical literacy" by introducing the fundamentals of research design and interpretation; as well as to basic descriptive and inferential statistics. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30002 POLITICAL THOUGHT

This course is designed to introduce the student to basic methodological and substantive concerns in the tradition of western political thought. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30003 POLITICAL ECONOMY

This course is designed to introduce students to the fundamental questions surrounding the relationship between the public and private sectors, considered from the perspective of the state and its major political institutions. Of central concern is the growing internationalization of capital and its consequences for both domestic and international politics. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30100 AMERICAN POLITICAL THEORY

Major political ideas and controversies associated with the development of

American political thought. Prerequisite: POL 10100.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30110 THE CONGRESS

This course deals with the powers of Congress, its organization, leadership of the two houses, role of the parties, relationships with the chief executive and the executive agencies and recent reforms enacted by the House and Senate.

Prerequisite: POL 10100.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30120 PRESIDENCY AND EXECUTIVE BUREAUCRACY

Intensive study of the American Presidency, focusing on personality, organization of the office, use and misuse of power and policy making. Prerequisite: POL 10100.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30130 COURTS

Intensive study of the judicial process in United States and the relationship between the judicial system and the larger American social system. Prerequisite: POL 10100.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30300 PUBLIC POLICY THEORY

The core issues of public policy process, institutional contexts and ethical considerations form the basis of this introductory survey of traditional and contemporary theories of public policy. Prerequisite: POL 10300.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30301 INTRODUCTION TO PUBLIC ADMINISTRATION

Introduction to the theory and practice of governmental administration, including structure, organization, direction and control of governmental departments and agencies. Prerequisite: POL 10300.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30310 PUBLIC POLICY ANALYSIS

Introduces students to the political and economic tools used to analyze public

policies and discusses the political elements influencing that analysis. Essentially, the goal is to ensure that students understand the basic economic principles used to evaluate different public policy proposals while questioning the assumptions underlying those economic assumptions. Prerequisite: POL 10300.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30350 ENVIRONMENTAL CONFLICT RESOLUTION

Examines alternative dispute resolution principles applicable to public sector disputes, especially environmental and land use disputes. Prerequisite: POL 10300.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30430 OHIO POLITICS

Addresses the history, structure, and current practices of politics and public policy in the state of Ohio. Prerequisite: POL 10100 or POL 10300.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30440 STATE AND LOCAL GOVERNMENT

Covers the fundamental aspects of governing at the municipal, county and state levels, including financing and dealings with the federal government. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30450 URBAN POLITICS AND POLICY

Discusses local governance in the context of metropolitan change, and issues such as governing capacity, local democracy, individual choice, and economic and racial inequality. Examines the formal and informal arrangements that shape change and public policy. Prerequisite: POL 10100 or POL 10300.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30460 STATE POLITICS AND POLICY

Introduces the theoretical and legal infrastructures of federalism and intergovernmental relations, with a particular emphasis on political and policy operations at the state level. Political behavior and institutions, as well as the



specifics of selected, substantive policy areas are emphasized. Prerequisite: POL 10100 or POL 10300.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30500 INTERNATIONAL RELATIONS THEORY

This course introduces competing theoretical approaches to the study of international relations; an examination of the historical developments followed by an examination of current issues in world politics. Prerequisite: POL 10500.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30511 PROBLEMS OF INTERNATIONAL ORGANIZATION

Intensive study of major European problems handled by international organizations, including the United Nations and nongovernmental organizations. Combines classroom and field investigations. Prerequisite: registration in the Geneva Semester required.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30520 EUROPEAN POLITICS

This course examines major European national political systems (British, French, German, Russian and Scandinavian) relations between the European states, the institutions of the European Union and prospects and problems of European integration. Prerequisite: POL 10004.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30530 ASIAN POLITICS

Introduction to the political, economic, and social dynamics of Asia: from Siberia in the north to the Indian Ocean in the south, and from the Pacific Ocean in the east to the Hindu Kush in the west. The first part of the course examines Asia's modern political history (particularly the past half-century). The second part of the course focuses on contemporary issues, including the roles of the US and sub-regional actors such as ASEAN. Prerequisite: POL 10004.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Global

POL 30540 AFRICAN POLITICS

An analysis of major issues in African politics and international relations. The

contemporary development of Africa will be analyzed in the global context of the historical forces of imperialism and colonialism. Prerequisite: POL 10004.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Global

POL 30550 LATIN AMERICAN POLITICS

Analysis of political culture/process in selected Latin American states, with particular emphasis on Mexico, Brazil, Argentina and Columbia. Prerequisite: POL 10004.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Global

POL 30551 U.S.-LATIN AMERICAN RELATIONS

Survey of U.S.-Latin American diplomacy, contemporary hemispheric issues and relations between Latin American states themselves. Prerequisite: POL 10004.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30560 MIDDLE EAST POLITICS

Introduces students to the theory and context of politics in the Middle East in a way that contests the often-simplistic stereotypes communicated through western media and throughout western culture, in order to encourage a more nuanced appreciation of the Middle East. Theoretical approaches utilized include modernization, dependency, structuralism and constructivism. Prerequisite: POL 10400.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30810 POLITICS OF THE GLOBAL ECONOMY

Examines interaction between economics and politics in international relations. Topics: poverty and uneven economic development, political prerequisites for free trade, intra-western and north-south economic conflict, and distributive justice. Prerequisite: POL 10300 or POL 10500.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30820 INTERNATIONAL ORGANIZATION AND LAW

This course introduces the subject matter in historical and theoretical contexts, then devotes detailed attention to the full range of international organizations that exist

today. A final section addresses the role of international law in world politics.

Prerequisite: POL 10300 or POL 10500.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30840 NONGOVERNMENTAL ORGANIZATIONS

This course introduces the diverse range of nongovernmental organizations which exist today and explores their varying roles in setting agendas, shaping legislation and implementing public policy reforms.

Prerequisite: POL 10300 or POL 10500.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 30991 SEMINAR: COLUMBUS PROGRAM IN INTERGOVERNMENTAL ISSUES

Annual fall semester resident-study in Columbus. Students spend three days per week working at an internship and two days per week attending briefings and completing POL 40995. Prerequisites: minimum 2.50 GPA and special approval.

Corequisite: POL 40995.
6.000 TO 12.000 Credit hours
12.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Political Science

POL 39592 GENEVA INTERNSHIP

Allows students to earn academic credit while performing intern's duties as part of the Semester in Geneva program.

Prerequisite: none.
3.000 Credit hours
21.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Political Science

POL 40112 POLITICS AND THE MASS MEDIA

This course examines the multiple roles played by the mass media in contemporary politics and analyzes the implications of those roles. Prerequisite: POL 10100.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40116 PUBLIC OPINION AND POLITICAL BEHAVIOR

Analysis of determinants of public opinion and political behavior. Study of how public makes up its mind and impact of public opinion on government policy. Prerequisite: POL 10100.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science



POL 40118 POLITICAL PARTIES AND INTEREST GROUPS

An examination of the changing roles of political parties and interest groups in the American political system, including a comparison of their respective electoral activities. Prerequisite: POL 10100.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40182 CONSTITUTIONAL LAW: GOVERNMENTAL STRUCTURES AND FUNCTIONS

Nature and scope of constitutional government. Study of judicial review, separation of powers, federalism, commerce and taxation. Prerequisite: POL 10100.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40183 CONSTITUTIONAL LAW: CIVIL RIGHTS AND LIBERTIES

Nature and scope of constitutional limitations. Study of first amendment, freedom of expression, freedom of religion, criminal rights, due process, equal protection. Prerequisite: POL 10100.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Domestic

POL 40191 SEMINAR IN AMERICAN POLITICS

(Repeatable with special approval A required, writing-intensive seminar for juniors and seniors in the American politics concentration. The focus of the seminar will vary depending on instructor. Prerequisites: POL 10100 or 10300; and POL 10004 or 10500; and POL 30001 and POL 30002 or POL 30003; and political science (POL) major.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Political Science
Course Attributes: Writing Intensive Course

POL 40320 ETHICS AND PUBLIC POLICY

The ethical obligations of public policy makers are examined in this course, within a series of applied cases. The goal is to empower students with the intellectual tools of critical analysis within diverse policy environments. Prerequisite: POL 10300.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40391 SEMINAR IN PUBLIC POLICY

(Repeatable with special approval) A required, writing intensive seminar for juniors and seniors in the public policy concentration. The focus of the seminar will vary depending on instructor. Prerequisites: POL 10100 or 10300; and POL 10004 or POL 10500; and POL 30001 and POL 30002 or 30003; and political science (POL) major.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Political Science
Course Attributes: Writing Intensive Course

POL 40410 REGULATORY POLICY

Provides an advanced understanding of the nature of government regulation: its definition; the institutions and groups involved in developing it; and current practices. The focus is on analyzing why regulation exists and how regulatory agencies function. Prerequisites: POL 10100 or POL 10300.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40440 U.S. ENVIRONMENTAL POLITICS AND POLICIES

This is a course in United States environmental politics and policies. It deals with topics such as the history of the U.S. environmental movement, public opinion and environmental issues, environmental racism and classism, and environmental policy making and implementation. Prerequisites: POL 10100 or POL 10300.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40450 HEALTH CARE AND SOCIAL POLICY

Addresses health care policy in the United States from both theoretical (political, economic as well as public policy) and substantive perspectives at the state, national and comparative-international levels. Further, the examination of health care policy takes place in the context of social welfare policy more broadly considered. Prerequisite: POL 10100 or 10300.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40470 WOMEN, POLITICS AND POLICY

Examines origins, development and current record of century-old women's movement unique in U.S. annals; compares it with other contemporary social movements. Examines issues of women and public

policy. Prerequisite: POL 10100 or POL 10300.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Domestic

POL 40530 POLITICS OF WAR

Examines central questions concerning the justification, explanation characteristic features and consequences of war. Specific cases are examined such as World War II, the Chinese Revolution, Vietnam's civil war and potential nuclear war. Prerequisite: POL 10500.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40540 POLITICS OF DEVELOPMENT

Examines practice, record and theories of political development for less developed, developing and developed political systems. Includes extensive analysis of issues, problems through case studies. Prerequisite: POL 10004 or POL 10500.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Global

POL 40560 HUMAN RIGHTS AND SOCIAL JUSTICE

Examines the relationship between human rights and problems of the Third World in the civic, political, social and cultural arenas. Particular attention is placed on the struggle of women. Prerequisite: POL 10004 or POL 10500.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science
Course Attributes: Diversity Course-Global

POL 40591 SEMINAR IN INTERNATIONAL RELATIONS-COMPARATIVE POLITICS

(Repeatable with special approval) A required, writing-intensive seminar for juniors or seniors in the International Relations-Comparative Politics concentration. The focus of the seminar varies depending on instructor. Prerequisites: POL 10100 or 10300; and POL 10004 or 10500; and POL 30001 and POL 30002 or 30003; and political science (POL) major.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Political Science
Course Attributes: Writing Intensive Course

**POL 40620 POLITICS OF SOCIAL MOVEMENTS**

Examines the role of social movements both in the US and around the world. Focuses on labor, environmental, social justice and other initiatives in the push for political and economic democracy. North-South, public-private, labor-management and regional perspectives are emphasized. Prerequisite: POL 10004 or POL 10100 or POL 10500.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40840 COMPARATIVE FOREIGN POLICY

Comparative analysis of foreign policy patterns and determinants on the basis of the examination of foreign policy of selected countries. Prerequisite: POL 10004 or POL 10300 or POL 10500.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40930 U.S. FOREIGN POLICY

Examines policy objectives, patterns of decision-making and foreign policy actions, roles of interest groups, public opinion, congress, executive and external influences on policy. Prerequisite: POL 10300 or POL 10300 or POL 10500.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40991 WASHINGTON PROGRAM IN NATIONAL ISSUES

Annual spring semester resident-study in Washington, D.C. Credit hours divided among three units: preparatory colloquium, on-site briefings seminar and internship. Prerequisite: Junior standing; and 2.75 GPA; and special approval of the director.
15.000 Credit hours
15.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Political Science

POL 40992 PUBLIC SERVICE

Allows academic credit for approved participation in variety of political processes, or as an intern with governmental or private agencies dealing with public affairs. Prerequisite: Political science (POL) majors and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Political Science

POL 40993 VARIABLE TITLE WORKSHOP IN POLITICAL SCIENCE

Prerequisite: None.
1.000 TO 6.000 Credit hours

6.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Political Science

POL 40995 SELECTED TOPICS IN POLITICAL SCIENCE

Special course, not regularly offered. Subject varies depending on the emerging issue, staff availability and competencies. Precise title always listed in the schedule of classes. Prerequisite: Junior or senior standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 40996 INDIVIDUAL INVESTIGATION

For students desiring research into subjects beyond level of completed course work, or on subjects for which no regular course is offered. Prerequisite: Political science (POL) majors and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Political Science

POL 51191 SEMINAR: PROBLEMS IN AMERICAN GOVERNMENT

For graduate students outside of political science who wish to take 40000-level American Government courses for graduate credit. Students must meet all of the requirements of the 40000 level plus do additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 hours in any one semester. Instructor and course content may vary from semester to semester. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 51391 SEMINAR: PROBLEMS IN PUBLIC POLICY

For graduate students outside of political science who wish to take 40000-level Public Policy courses for graduate credit. Students must meet all of the requirements of the 40000 level plus do additional work as agreed upon by the instructor. May be taken more than once but never more than 3 hours in any one semester. Instructor and course content may vary from semester to semester. "IP" permissible. Core seminars. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 51591 SEMINAR: PROBLEMS IN INTERNATIONAL RELATIONS/COMPARATIVE GOVERNMENT

For graduate students outside of political science who wish to take 40000 International/Comparative Government courses for graduate credit. Students must meet all of the requirements of the 40000 level plus do additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 hours in any one semester. Instructor and course content may vary from semester to semester. Public policy. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 60002 APPROACHES TO PUBLIC POLICY

This course introduces students to the philosophy of science and scientific inquiry within the context of the social sciences, and presents a broad survey of leading paradigms and debates within the field of public policy. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60003 POLICY METHODS I

This course provides a selective introduction to basic quantitative methods for the analysis of public policy dealing with basic descriptive and inferential statistics and an introduction to qualitative techniques. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60004 PUBLIC POLICY METHODS II

This course introduces students to multivariate quantitative techniques appropriate for the analysis of public policy and incorporates a broad array of advanced qualitative analysis. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60006 FOUNDATIONS OF PUBLIC POLICY

This course covers the development of policy studies as a field. As a broad survey this course introduces general concepts and debates with applications within each field of specialization. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60101 PROSEMINAR IN AMERICAN POLITICS AND POLICY

This course provides a broad survey of the policymaking process in the U.S.

government. Coverage includes formal government structures as well as more informal networks of private groups that seek to influence public policy at the national level. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60102 AMERICAN POLICY PROCESS

This course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation implementation and evaluation.

Prerequisite: POL 60101 or POL 60301 and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60103 CONGRESS, THE PRESIDENCY AND THE COURTS

Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes.

Prerequisite: POL 60101 and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60104 CULTURAL CONTEXT OF AMERICAN POLITICS

This course examines the ideological foundations upon which the public policy process in the United States is constructed. Particular attention is given to the often conflicting societal attitudes toward the U.S. government and its conduct of public policy. Prerequisite: POL 60101 and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60105 FEDERALISM AND STATE POLICYMAKING

This course covers the theory and practice of federalism with emphasis on its consequences for policy outcomes. Students also examine the transformation of the policy role of state governments in recent years. Prerequisite: POL 60101 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60106 URBAN POLICY AND POLITICS

Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking. Prerequisite: POL 60101 or POL 60301 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60107 CONFLICT AND CONSENSUS IN THE PUBLIC SECTOR

This course introduces students to public sector conflict resolution processes such as environmental mediation, regulatory-negotiation, collaborative problem solving, and consensus-building. Of particular interest is the utility of these processes in specific areas of public policy. Prerequisite: POL 60101 or POL 60301 or POL 60701; and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60191 SEMINAR IN AMERICAN POLITICS AND POLICY

Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 60301 PROSEMINAR IN POLICY ANALYSIS AND ADMINISTRATION

This course covers the systematic procedures for analysis of policy problems. Special attention is paid to economic concepts such as cost benefit analysis and the role of multiple values in the policy process. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60302 BUREAUCRACY AND THE POLICYMAKING PROCESS

This course provides students with a theoretical and practical understanding of the bureaucracy as a unit of analysis in policy studies. Of particular interest is the interaction of the bureaucracy with other policymaking institutions and non-state

actors. Prerequisite: POL 60301 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60303 REGULATORY POLICY

This course examines the politics of regulatory policy from a variety of theoretical perspectives. These theories are applied to several domains of regulation, primarily those relating to public finance. POL 60301 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60304 ANALYTIC TECHNIQUES OF POLICY-MAKING

This course covers the concepts, techniques, and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policymakers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy. Prerequisite: POL 60301 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60305 STATE AND LOCAL GOVERNMENT FINANCIAL ANALYSIS

This course provides an overview of the state and local sectors of government. Primary attention is paid to the financial role of the sub-national governments with regard to taxing and spending policies. Prerequisite: POL 60301 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60306 LEADERSHIP AND PUBLIC POLICY

This course exposes students to the role of leadership issues in shaping contemporary public policy. Students are introduced to contending theories of policy leadership in specific domains such as health care the environment and neighborhood governance. Prerequisite: POL 60301 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60307 ISSUES IN AMERICAN PUBLIC POLICY

The primary purpose of this course is to apply the conceptual tools of public policy analysis to current issues facing the U.S. government. Students are introduced to the



major policy debates regarding these issues with reference to the historical, political-economic, and cultural context in which they occur. Prerequisite: POL 60301 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60391 SEMINAR IN POLICY ANALYSIS AND ADMINISTRATION

Seminar on current and important topics in policy analysis and administration. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 60501 PROSEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY

This course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60502 GLOBAL GOVERNANCE

This course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process including nation-states, intergovernmental organizations and non-governmental organizations. Prerequisite: POL 60501 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60503 FOREIGN POLICY ANALYSIS

This course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis, and policy domains. Prerequisite: POL 60501 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60504 U.S. FOREIGN POLICY

This course examines the dilemmas facing the U.S. government as it confronts a rapidly changing international system. Historical patterns are considered along

with current issues regarding the formulation and conduct of U.S. foreign policy. Prerequisite: POL 60501 or POL 60101; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60505 COMPARATIVE PUBLIC POLICY AND ADMINISTRATION

This course examines theoretical and substantive issues in comparative public policy and public administration. The various frameworks approaches and Departments of thought are reviewed in each area of study. Prerequisite: POL 60501 or POL 60301; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60506 INTERNATIONAL POLITICAL ECONOMY AND DEVELOPMENT POLICY

This course is designed to provide a variety of perspectives with which to make sense of the structure of the international economy and the policy options available to governments seeking to encourage domestic economic development. Prerequisite: POL 60501 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60507 CONFLICT TRANSFORMATION AND RECONCILIATION

Cross-cultural analysis of transition from mass violence to justice and from protracted conflict to democracy. Subjects of study include truth and reconciliation commissions criminal tribunals apologies reparations and, other aids to conflict transformation. Prerequisite: POL 60501 or POL 60701 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY

Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 60701 PROSEMINAR IN ISSUES IN CONTEMPORARY JUSTICE

An analysis of current issues in the legislative, policing, judicial and correctional components of the justice system. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60703 COMMUNITY AND DOMESTIC VIOLENCE

This course explores the causes and implications of violence in our homes and communities. Conflict management strategies and techniques are reviewed to see how they have served as policy solutions as agents of change or in maintaining the status quo. Prerequisite: POL 60701 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60704 THEORIES OF CRIME AND DELINQUENCY

Examination of major theoretical concepts in criminology that have been utilized to explain criminal behavior and juvenile delinquency. Includes discussion of social policy implications. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 60791 SEMINAR IN JUSTICE POLITICS AND POLICY

Seminar on current and important topics in justice politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 61094 COLLEGE TEACHING IN POLITICAL SCIENCE

Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum of 4 hours applicable toward Ph.D. requirements, with graduate studies committee approval. Prerequisite: Graduate standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 61098 RESEARCH

Research or individual investigation for master's level graduate students. Credits



may be applied toward meeting degree requirements if department approves and a letter grade is given. Repeat registration permitted. Prerequisite: Graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Political Science

POL 61199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Political Science

POL 61299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: POL 61199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Political Science

POL 69091 SEMINAR: PUBLIC POLICY METHODS

Will focus on select topics in public policy methods, including methodology or advanced applied policy analysis. More than one seminar by be offered. Course can be taken repeatedly. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 69095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY

Topics course. Repeatable for a total of 12 credit hours. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70002 APPROACHES TO PUBLIC POLICY

This course introduces students to the philosophy of science and scientific inquiry within the context of the social sciences, and presents a broad survey of leading paradigms and debates within the field of public policy. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70003 POLICY METHODS I

This course provides a selective introduction to basic quantitative methods for the analysis of public policy dealing with basic descriptive and inferential statistics and an introduction to qualitative techniques. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70004 PUBLIC POLICY METHODS II

This course introduces students to multivariate quantitative techniques appropriate for the analysis of public policy and incorporates a broad array of advanced qualitative analysis. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70006 FOUNDATIONS OF PUBLIC POLICY

This course covers the development of policy studies as a field. As a broad survey this course introduces general concepts and debates with applications within each field of specialization. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70038 MANAGERIAL ACCOUNTING FOR PUBLIC ADMINISTRATION

Managerial uses of accounting information for planning and control. Emphasis on decision-making in public sector and role of information in making rational choices. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70101 PROSEMINAR IN AMERICAN POLITICS AND POLICY

This course provides a broad survey of the policymaking process in the U.S. government. Coverage includes formal government structures as well as more informal networks of private groups that seek to influence public policy at the national level. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70102 AMERICAN POLICY PROCESS

This course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation

implementation and evaluation. Prerequisite: POL 70101 or POL 70301; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70103 CONGRESS, THE PRESIDENCY AND THE COURTS

Focuses on the three branches of the U.S. government specifically congress the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes. Prerequisite: POL 70101 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70104 CULTURAL CONTEXT OF AMERICAN POLITICS

This course examines the ideological foundations upon which the public policy process in the United States is constructed. Particular attention is given to the often conflicting societal attitudes toward the U.S. government and its conduct of public policy. Prerequisite: POL 70101 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70105 FEDERALISM AND STATE POLICYMAKING

This course covers the theory and practice of federalism with emphasis on its consequences for policy outcomes. Students also examine the transformation of the policy role of state governments in recent years. Prerequisite: POL 70101 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70106 URBAN POLICY AND POLITICS

Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policymaking. Prerequisite: POL 70101 or POL 70301; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

**POL 70107 CONFLICT AND CONSENSUS IN THE PUBLIC SECTOR**

This course introduces students to public sector conflict resolution processes such as environmental mediation, regulatory-negotiation, collaborative problem solving, and consensus-building. Of particular interest is the utility of these processes in specific arenas of public policy. Prerequisite: POL 70101 or POL 70301 or POL 70701; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70191 SEMINAR IN AMERICAN POLITICS AND POLICY

Seminar on current and important topics in American politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 70195 SPECIAL TOPICS IN PUBLIC ADMINISTRATION

Various topics offered by the Master of Public Administration program. Prerequisite: doctoral standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70198 RESEARCH IN PUBLIC ADMINISTRATION

Research or individual investigation for graduate students. Credits earned may be applied toward meeting requirements if department approves. Prerequisite: political science (POL) major; and doctoral standing; and special approval.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Political Science

POL 70301 PROSEMINAR IN POLICY ANALYSIS AND ADMINISTRATION

This course covers the systematic procedures for analysis of policy problems. Special attention is paid to economic concepts such as cost benefit analysis and the role of multiple values in the policy process. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70302 BUREAUCRACY AND THE POLICYMAKING PROCESS

This course provides students with a theoretical and practical understanding of the bureaucracy as a unit of analysis in policy studies. Of particular interest is the interaction of the bureaucracy with other policymaking institutions and non-state actors. Prerequisite: POL 70301 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70303 REGULATORY POLICY

This course examines the politics of regulatory policy from a variety of theoretical perspectives. These theories are applied to several domains of regulation, primarily those relating to public finance. Prerequisite: POL 70301 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70304 ANALYTIC TECHNIQUES OF POLICY-MAKING

This course covers the concepts, techniques and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policymakers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy. Prerequisite: POL 70301 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70305 STATE AND LOCAL GOVERNMENT FINANCIAL ANALYSIS

This course provides an overview of the state and local sectors of government. Primary attention is paid to the financial role of the sub-national governments with regard to taxing and spending policies. Prerequisite: POL 70301 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70306 LEADERSHIP AND PUBLIC POLICY

This course exposes students to the role of leadership issues in shaping contemporary public policy. Students are introduced to contending theories of policy leadership in specific domains such as health care the environment and neighborhood governance. Prerequisite: POL 70301 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Political Science

POL 70307 ISSUES IN AMERICAN PUBLIC POLICY

The primary purpose of this course is to apply the conceptual tools of public policy analysis to current issues facing the U.S. government. Students are introduced to the major policy debates regarding these issues with reference to the historical, political, economic and cultural context in which they occur. Prerequisite: POL 70301 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70370 PUBLIC MANAGEMENT CONCEPTS AND PRACTICES

Introductory course for all M.P.A. students. Focus is on "macro level" understanding of government agencies: institutional context, agency-environment linkages, internal dynamics, role in public policy. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70371 GRADUATE INTRODUCTION TO PUBLIC ADMINISTRATION

Introductory graduate course to the theory and study of public administration. Topics include: evolution and characteristics of the modern nation state; core functions of public bureaucracy in any nation state; intergovernmental relations; formal and informal institutions and their role in policy; legal-regulatory processes; historical evolution of public administration as an academic field; major paradigms in organization theory and internal organizational dynamics. Prerequisite: political science (POL) major and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Political Science

POL 70372 ADMINISTRATIVE THEORY AND BEHAVIOR

Behavioral, bureaucratic, neoclassical and contemporary theories of organization and management are reviewed in an examination of the environment of public agency managers. Prerequisite: PADM 60370 or POL 70370; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70373 PUBLIC BUDGETING

Study of politics, theories, practices and techniques of public budgeting and



financing. Budgeting includes process of preparation, adoption and execution of operating, and capital budgets. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70374 PUBLIC FINANCIAL MANAGEMENT

Advanced study of the functions of the local government financial management agency and how these functions enhance the productivity and decision-making capacity of the organization. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70375 PUBLIC PERSONNEL ADMINISTRATION

Study of public personnel systems, including underlying system values and current problems, with emphasis on skill development and understanding of techniques for public personnel managers. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70376 LABOR MANAGEMENT RELATIONS IN THE PUBLIC SECTOR

This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes. Prerequisite: PADM 60375 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70377 PUBLIC BUDGETING AND FINANCIAL MANAGEMENT

Focuses on two aspects of public financial analysis: budgeting and financial management. The topics in budgeting are the basic purposes of budgets as mechanisms of resource control and allocation, and as legal documents; distinct budget formats and cross-walking of formats; budget preparation; legislative review; implementation and auditing. The topics in financial management are the mechanisms and tools for financing public operations, debt management, fund accounting, analyzing budgets, and forecasting. Prerequisites: political science (POL) major and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70378 MUNICIPAL MANAGEMENT AND ADMINISTRATION

Detailed analysis of metropolitan complex. Emphasis given to administrative political fiscal and legal problems in governing cities. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70379 PROGRAM EVALUATION I

Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and specifically the techniques utilized under different evaluation formats. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70381 METHODS IN PUBLIC ADMINISTRATION

This course is a graduate-level introduction to statistical methods and their use in public administration. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70382 SEMINAR IN PUBLIC ADMINISTRATION

Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution and literature bearing on the problems. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70384 PUBLIC AGENCY MANAGEMENT

This course is designed to acquaint advanced master's and doctoral candidates majoring in public administration with the operation and management of bureaucratic organizations. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70385 ADVANCED STUDIES SEMINAR IN PUBLIC ADMINISTRATION

This seminar is designed at each offering to meet the individualized needs of advanced doctoral candidates majoring in public administration. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70386 PUBLIC SECTOR INFORMATION TECHNOLOGY MANAGEMENT

Management of information technology systems in the public sector. Specific focus on: planning and acquisition of hardware and software and networking technologies, organizational governance and implementation, information security and privacy, legal requirements, IT service delivery and emerging enterprise technologies. Prerequisites: political science (POL) major and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70387 ELECTRONIC GOVERNANCE

An introduction to electronic governance with an emphasis on public administration. Examines the implications of information and communication technology in public organizations with regard to democracy, civic engagement, and performance improvement. Through case studies from the United States and across the world, students become familiar with the factors and issues surrounding the implementation of electronic governance on a comparative basis. Prerequisites: political science (POL) major and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Political Science

POL 70391 SEMINAR IN POLICY ANALYSIS AND ADMINISTRATION

Seminar on current and important topics in policy analysis and administration. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Political Science

POL 70392 INTERNSHIP IN PUBLIC ADMINISTRATION

Provides an opportunity for students to gain practical experience and be exposed to processes of public decision making and policy development. Prerequisite: political science (POL) major; and doctoral standing; and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Practicum

Department: Political Science

**POL 70470 PERSONAL ACCOUNTABILITY IN THE PUBLIC SERVICE**

Focus is on students internalizing their role in the public service as stewards of the public trust. Topics covered include dimensions of stewardship: maintaining personal honor; protecting the liberty and dignity of the citizen, dimensions of justice; anti-corruption, incorporating principles of stewardship in their personal decision making and throughout the organization. Prerequisites: political science (POL) major and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70471 NONPROFIT LAW

Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status; basic requirements for establishing/ operating nonprofit organizations specifically in Ohio. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70472 NONPROFIT BOARD-EXECUTIVE RELATIONS

Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities and governance structures. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70473 GOVERNMENTAL FINANCIAL ANALYSIS

A laboratory in techniques of governmental financial analysis. Course focuses on how to analyze current financial position to develop financial plans for upcoming years. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70474 HEALTH CARE REIMBURSEMENT

This is an introductory course to familiarize students with private and public sector reimbursement operations and regulations in the United States health care industry. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70477 NONPROFIT FINANCIAL RESOURCE DEVELOPMENT

Successful strategies for fundraising and resource development for nonprofit organizations. Students will be exposed to fundraising in practice and will write a resource development plan. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70492 CAPSTONE SEMINAR

Students complete an approved, written project that is analytical and research based. Prerequisite: political science (POL) major; and doctoral standing; and special approval needed from department.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 70501 PROSEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY

This course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary sub-fields of analysis. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70502 GLOBAL GOVERNANCE

This course examines issues, problems and debates regarding global governance in the contemporary world. Of primary interest is the array of actors in this process including nation-states, intergovernmental organizations, and non-governmental organizations. Prerequisite: POL 70501 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70503 FOREIGN POLICY ANALYSIS

This course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decision-making, levels of analysis, and policy domains. Prerequisite: POL 70501 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70504 U.S. FOREIGN POLICY

This course examines the dilemmas facing the U.S. government as it confronts a rapidly changing international system.

Historical patterns are considered along with current issues regarding the formulation and conduct of U.S. foreign policy. Prerequisite: POL 70501 or POL 70101; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70505 COMPARATIVE PUBLIC POLICY AND ADMINISTRATION

This course examines theoretical and substantive issues in comparative public policy and public administration. The various frameworks approaches and Departments of thought are reviewed in each area of study. Prerequisites: POL 70501 or POL 70301; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70506 INTERNATIONAL POLITICAL ECONOMY AND DEVELOPMENT POLICY

This course is designed to provide a variety of perspectives with which to make sense of the structure of the international economy and the policy options available to governments seeking to encourage domestic economic development. Prerequisite: POL 70501 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70507 CONFLICT TRANSFORMATION AND RECONCILIATION

Cross-cultural analysis of transition from mass violence to justice and from protracted conflict to democracy. Subjects of study include truth and reconciliation commissions, criminal tribunals, apologies, reparations, and other aids to conflict transformation. Prerequisite: POL 70501 or POL 70701; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70574 STRATEGIC PLANNING

Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science



POL 70591 SEMINAR IN TRANSNATIONAL AND COMPARATIVE POLITICS AND POLICY

Seminar on current and important topics in transnational and comparative politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 70701 PROSEMINAR IN ISSUES IN CONTEMPORARY JUSTICE

An analysis of current issues in the legislative, policing, judicial and correctional components of the justice system. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70702 JUSTICE INSTITUTIONS

This course introduces students to various institutions related to the U.S. criminal justice system. Students examine techniques for conducting institutional analysis and apply these techniques to law enforcement, judicial and correctional institutions. Prerequisite: POL 70701 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70703 COMMUNITY AND DOMESTIC VIOLENCE

This course explores the causes and implications of violence in our homes and communities. Conflict management strategies and techniques are reviewed to see how they have served as policy solutions, as agents of change, or in maintaining the status quo. Prerequisite: POL 70701 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70704 THEORIES OF CRIME AND DELINQUENCY

Examination of major theoretical concepts in criminology that have been utilized to explain criminal behavior and juvenile delinquency. Includes discussion of social policy implications. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70705 COMPARATIVE JUSTICE INSTITUTIONS AND POLICY

Cross-cultural analysis of crime and the justice institutions/justice policies of various countries. The developmental backgrounds, structure and functioning of the systems are compared. Important issues in international justice are considered. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70706 VICTIMOLOGY

Patterns of victim-offender relationship. Role of victims in the justice studies process. Problems of adjustment to victimization and compensating the victim. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70707 LAW, JUSTICE AND SOCIETY

Course reviews the origins, structure and functioning of law in relation to social context and process. Topics to be covered include theories of law and society, law as a form of social control and the use of law and legal institutions to address societal problems. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 70791 SEMINAR IN JUSTICE POLITICS AND POLICY

Seminar on current and important topics in justice politics and policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 71094 COLLEGE TEACHING IN POLITICAL SCIENCE

Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum of 4 hours applicable toward Ph.D. requirements with graduate studies committee approval. Prerequisite: Doctoral standing.
1.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 79091 SEMINAR: PUBLIC POLICY METHODS

Will focus on select topics in public policy methods, including Q methodology or advanced applied policy analysis. More than one seminar may be offered. Course can be taken repeatedly. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Political Science

POL 79095 SPECIAL TOPICS IN POLITICAL SCIENCE AND PUBLIC POLICY

Topics course. Repeatable up to 12 credit hours. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Political Science

POL 81098 RESEARCH

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if department approves and if letter grade given. Repeat registration permitted. Prerequisite: Doctoral standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Political Science

POL 81199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required, and the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Special approval and doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Political Science

POL 81299 DISSERTATION II

Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: POL 81199 and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Political Science

Portuguese (PORT)

PORT 17201 ELEMENTARY PORTUGUESE I

An introduction to the Portuguese language in the context of Luso-Brazilian cultures. Prerequisite: Special approval.
4.000 Credit hours



4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

PORT 17202 ELEMENTARY PORTUGUESE II

A continuation of the introduction to the Portuguese language in the context of Luso-Brazilian cultures. Prerequisite: PORT 17201.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

PORT 27209 FIELD STUDY

For residence and/or field research in a Portuguese-speaking community. Prior to registration for this course student must obtain departmental approval. Repeatable for a total of 6 hours. Prerequisite: Special approval.

1.000 TO 6.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

PORT 27210 INTENSIVE PORTUGUESE

Intensive study for students continuing beyond elementary Portuguese and for those with the equivalent of Spanish Composition and Conversation I. Course provides training through intermediate Portuguese II. Prerequisite: PORT 17202 or SPAN 38211.

5.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

PORT 37211 COMPOSITION AND CONVERSATION

Study and practice of oral and written Portuguese. Prerequisite: PORT 27210. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

PORT 37330 EARLY BRAZILIAN LITERATURE

Outline of developments in Brazilian literature and reading of representative works from the colonial period to 1922. Prerequisite: PORT 37211. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Writing Intensive Course

PORT 37331 RECENT BRAZILIAN LITERATURE

Outline of developments in Brazilian literature and reading of representative works from 1922 to the present. Prerequisite: PORT 37211. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Writing Intensive Course

PORT 37421 LUSO-BRAZILIAN CIVILIZATION

Lectures, readings, oral and written reports on outstanding features of the Portuguese speaking world with emphasis on Brazil. Prerequisite: PORT 37211. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

PORT 47093 VARIABLE TITLE WORKSHOP IN PORTUGUESE

Workshops individually designed to provide instruction and training in specific areas of Portuguese studies. S u graded. Prerequisite: Departmental permission. 1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Modern and Classical
Language Studies

PORT 47095 SELECTED TOPICS

Intensive treatment of a selected aspect of Luso-Brazilian literature or linguistics. Topic announced in the schedule of classes. Prerequisite: 9 hours of 30000-level Portuguese (PORT) courses. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

PORT 47096 INDIVIDUAL INVESTIGATION

Allows the advanced, serious student to carry out research study project on Portuguese literature, language or culture. Prior approval of supervising faculty member department required. Repeatable for a total of 6 hours. Prerequisites: PORT 27210 and junior standing and special approval. 1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Modern and Classical
Language Studies

Psychology (PSYC)

PSYC 11762 GENERAL PSYCHOLOGY

Introduction to the scientific approach to understanding human behavior and mental processes such as emotions, perceptions and cognitions. Topics may include personality, social and environmental factors, biological aspects of behavior and the experience of emotion and psychological disorders. Prerequisite: none. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology
Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

PSYC 20651 CHILD PSYCHOLOGY

A review of the data, concepts and theories of psychology that contribute to the understanding of child development from conception to age 14. Prerequisite: PSYC 11762. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology
Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

PSYC 21211 PSYCHOLOGY OF ADJUSTMENT

A review of theories, concepts and data that contribute to the understanding of human adjustment. Topics may include the following: personality, stress and coping, transitions from adolescence to adulthood, psychological disorders and psychotherapy. Prerequisite: PSYC 11762. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology
Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, Transfer Module-Social Sciences

PSYC 21621 QUANTITATIVE METHODS IN PSYCHOLOGY I

Application of quantitative, statistical methods in psychological research. Descriptive and inferential methods (includes ANOVA, t-test and correlation). Prerequisite: PSYC 11762. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology

PSYC 22221 MULTICULTURAL PSYCHOLOGY

Examination of areas of psychology upon which diversity issues have a bearing and focused study of psychological issues



relevant to African-American, Asian-American, Hispanic/Latino American and American Indian groups. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, Transfer Module-Social Sciences

PSYC 30111 FORENSIC PSYCHOLOGY

Surveys major areas of forensic psychology, which focuses on the application of the science and profession of psychology to legal settings. Topics include roles and responsibilities of forensic psychologists, forensic assessment, psychological theories of criminal behavior, law enforcement psychology and eyewitness testimony. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 30445 COGNITIVE PSYCHOLOGY

Covers the mental processes that underline human thought and behavior, such as attention, memory, comprehension, reasoning, problem-solving and language. Considers established and current theoretical models, research methods and experimental results. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 30651 ADOLESCENT PSYCHOLOGY

A review of the theories, concepts and data that contribute to our understanding of the physical, intellectual, educational, personality and social development of adolescents in contemporary society. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 30652 SOCIAL AND PERSONALITY DEVELOPMENT

Processes and findings in social and personality development, with a focus on childhood and adolescence. Will include the examination of individual differences as well as developmental changes in social function and personality. Prerequisite: PSYC 11762; and PSYC 20651 or HDFS 24012.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 30655 COGNITIVE DEVELOPMENT

Covers the development of cognitive processes over the lifespan, especially during infancy and childhood. Important theoretical claims empirical results and research methods of relevant areas including memory are, critically evaluated. Prerequisite: PSYC 11762; and PSYC 20651 or HDFS 24012.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 30656 PSYCHOLOGY OF AGING

Exploration of basic research and theory on the psychological consequences of aging and psychological factors that affect the behavior of older persons. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 30821 PSYCHOLOGY OF MOTIVATION

Factors that provide the energy and direction for behaviors, emotions and cognitive processes. Seeks to answer the question "why" concerning the things people do, feel and think. A survey approach is used to include both the traditional and newly emerging concepts in motivation. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 31043 BASIC LEARNING PROCESSES

Examination of basic principles of Pavlovian conditioning, instrumental conditioning, animal learning and memory processes, and animal cognition. Emphasis on major empirical phenomena derived from research with animals with reference to related psychological processes in humans. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 31141 PERCEPTION

Investigates how humans detect, organize and interpret information from the environment. Considers how both biological and psychological process create and influence our perception of the world. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 31498 UNDERGRADUATE RESEARCH

Individual research open to qualified students. Repeatable for a total of 16 hours but see Arts and Sciences and psychology major/minor requirements for applicability limits. Prerequisite: PSYC 11762 and special approval.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Undergraduate

Schedule Types: Research

Department: Psychology

PSYC 31574 RESEARCH METHODS IN PSYCHOLOGY

The rationale, logic and procedures of scientific research in psychology with an emphasis on measurement, causal inference and research design.

Prerequisites: PSYC 11762 and PSYC 21621.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 31684 QUANTITATIVE METHODS IN PSYCHOLOGY II

Small sample theory, analysis of variance, linear regression and nonparametric statistics (e.g. Chi Square). This course may include qualitative analyses and computer based data analyses with SPSS. Prerequisite: PSYC 21621.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 31773 INDUSTRIAL PSYCHOLOGY

Application of principles, facts and theories of psychology to people at work. Includes motivation and satisfaction at work, personnel selection and placement, training and development, performance appraisal, organizational development, quality of work life, ergonomics and consumer psychology. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

PSYC 40111 ABNORMAL PSYCHOLOGY

Survey of the definitions as well as the biological, psychological and sociocultural causes of various psychological disorders. Illustrations of these disorders with cases. Overview of treatment approaches to these disorders may be included. Prerequisite: PSYC 11762.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Psychology

Course Attributes: TAG Social/Behavior Sciences

**PSYC 40231 PSYCHOLOGICAL ASSESSMENT**

Introduction to psychometrics and test theory. Use and basic interpretation of intellectual and personality tests. Skills in using tests at a professional level not given. Prerequisite: PSYC 11762 and PSYC 21621.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology

PSYC 40383 PSYCHOLOGICAL INTERVENTIONS

Application of psychological principles and techniques to the problems of the individual. This course is designed to introduce the field of clinical psychology, including models of understanding abnormal behavior, treatment of individuals and ethics and professional issues. Prerequisite: PSYC 11762.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology

PSYC 40461 PSYCHOLOGY OF LANGUAGE

Investigates psychological processes involved in language production, comprehension and development. Within each broad area emphasis is on theories, psychological experiments, key findings and the relationships between theory, method and data. Prerequisite: PSYC 11762 and PSYC 30445.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology

PSYC 40625 DEVELOPMENT OF GENDER ROLE AND IDENTITY

A life-span, developmental model is used to analyze the changes which occur with age in gender-related role performance and identity formation. Prerequisite: PSYC 11762.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology
Course Attributes: Diversity Course-Domestic

PSYC 40974 HISTORY OF PSYCHOLOGY

Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems, theories and fundamental issues with which psychologists have concerned themselves in past and contemporary stages of the science. Prerequisite: PSYC 11762 and Special Approval.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Psychology

PSYC 41282 PERSONALITY

A review of the data, concepts and theories of psychology that contribute to the understanding of personality. Prerequisite: PSYC 11762.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology
Course Attributes: TAG Social/Behavior Sciences

PSYC 41363 BIOPSYCHOLOGY

Covers the relationship between brain and behavior at the physiological, chemical and anatomical levels. Focuses on the association between the central nervous system and various processes and behaviors such as learning, emotions, neurological disorders and psychopathology. Prerequisite: PSYC 11762.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology

PSYC 41492 INTERNSHIP IN PSYCHOLOGY

Application of psychological knowledge and skills in applied settings. Allows academic credit for participation as an intern at approved internship sites including social service, non-profit agencies, government agencies and hospital settings. Course is repeated for credit. Prerequisite: Must have junior standing and 9 credit hours in psychology and 3.0 GPA overall. Open to psychology majors only. Special approval required.

1.000 TO 6.000 Credit hours
7.000 TO 42.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Psychology

PSYC 41495 SPECIAL TOPICS IN PSYCHOLOGY

In-depth examination of particular topics of current interest to faculty and students. Specialized areas of research theory or methodology may be covered. Specific topics announced. Repeated registration permitted. Prerequisite: Junior standing and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology

PSYC 41498 INDIVIDUAL INVESTIGATION

Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography. Repeatable for a total of 16 hours but see Arts and Sciences and

psychology major/minor requirements for applicability limits. Prerequisite: PSYC 11762 and special approval.
1.000 TO 6.000 Credit hours
1.000 TO 6.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Psychology

PSYC 41532 SOCIAL PSYCHOLOGY

Study of environmental/situational influences on our own and others' thoughts, behaviors and feelings-focus on topics such as aggression, attitudes and behaviors, conformity, helping, personal relationships and social cognition. Prerequisite: PSYC 11762.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology
Course Attributes: TAG Social/Behavior Sciences

PSYC 41573 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: SOCIAL/CLINICAL

Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content varies with instructor. Repeatable once with instructor, and departmental permission if topic is different. Prerequisites: 3.20 GPA and PSYC 11762 and PSYC 21621 and PSYC 31574.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology
Course Attributes: Writing Intensive Course

PSYC 41574 LABORATORY EXPERIENCE IN PSYCHOLOGICAL RESEARCH: COGNITIVE/LEARNING

Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content varies with instructor. Repeatable once with instructor and departmental permission if topic is different. Prerequisites: 3.20 GPA and PSYC 11762 and PSYC 21621 and PSYC 31574 and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology
Course Attributes: Writing Intensive Course

PSYC 41581 HEALTH PSYCHOLOGY

Role of psychological and social factors in health and illness, typically covering three general areas: (1) psychological factors affecting disease, (2) psychological and social consequences of illness and (3) psychotherapeutic interventions. Prerequisite: PSYC 11762.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture



Department: Psychology

PSYC 41990 WRITING IN PSYCHOLOGY

Writing-intensive course taken in conjunction with a 3-credit-hour, upper-division psychology course (except PSYC 31498, 41498, 41573, 41574 or 41993). Prerequisite: special approval.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Psychology
Course Attributes: Writing Intensive Course

PSYC 41991 SEMINAR IN PSYCHOLOGY

Seminar on various content areas of psychology. Specific topics announced. Prerequisite: PSYC 11762 and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Seminar
Department: Psychology

PSYC 41993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY

Variable topic offered as need arises. Specific topics will be announced in the schedule of classes. Prerequisite: PSYC 11762 and special approval.

1.000 TO 6.000 Credit hours
1.000 TO 6.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Psychology

PSYC 50974 HISTORY OF PSYCHOLOGY

Course examines the historical context, influences and individuals instrumental in the development of psychology. Course organization is designed to compare and contrast systems theories and fundamental issues with which psychologists have concerned themselves in past and contemporary states of the science. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 51993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY

Variable topics offered as need arises to train in specific area of field. Specific topics will be announced in schedule of classes. Prerequisite: Special approval and graduate standing.

1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Psychology

PSYC 60110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD

Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood. Prerequisite: Graduate standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 60170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT

An examination of the etiology, symptomatology and theoretical models of adult psychopathology. Prerequisite: Graduate status in psychology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 60171 FAMILY INTERACTION AND PSYCHOPATHOLOGY

Introduction to the study of family interaction as it relates to the etiology and maintenance of psychopathology. Theory, methodology and research relevant to specific behavioral disorders will be covered. Prerequisite: PSYC 6/70170 and graduate standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 60192 INTEGRATION PRACTICUM

Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives. Prerequisite: PSYC 6/70292 and PSYC 6/70792 and graduate standing in psychology (PSYC).

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 60272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT

Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students will also become familiar with major psychological tests. Prerequisite: Graduate standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 60273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT

Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations. Prerequisite: PSYC 6/70272 and graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 60274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD

Interviewing, developmental and intellectual assessments personality evaluations behavioral assessments and assessment of special child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation. Prerequisite: PSYC 6/70272 and PSYC 6/70292; and graduate standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 60275 BEHAVIORAL ASSESSMENT

Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues. Prerequisite: PSYC 6/70272 and PSYC 6/70292; and graduate standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 60276 NEUROPSYCHOLOGICAL ASSESSMENT

Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis. Prerequisite: PSYC 6/70272 and PSYC 6/70292; graduate standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 60292 PSYCHOLOGICAL ASSESSMENT PRACTICUM

Applied aspects of material presented in PSYC 6/70272. Emphasis on administering, scoring and interpreting major assessment tools. Prerequisite: Concurrent enrollment in PSYC 6/70272; and graduate standing in psychology (PSYC).

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Psychology

PSYC 60313 COMMUNITY PSYCHOLOGY

Introduction to conceptualizations and findings in community psychology. Special emphasis on the application of community approaches in various settings.



Prerequisite: Graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY

Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy. Prerequisite: Graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60325 FORENSIC PSYCHOLOGY

Consideration of the interface of psychology and the law with focus on activities in which clinical psychologists are likely to participate in relation to the legal system.

Prerequisite: Graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY

Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy. Prerequisite: Graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60371 INTRODUCTION TO PSYCHOLOGICAL THERAPY

Introduction to psychotherapy with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered. Prerequisite: PSYC 6/70170 and PSYC 6/71260; and graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60372 PSYCHOTHERAPY FOR SPECIFIC DISORDERS

Review of conceptual and empirical literature relating to psychotherapeutic treatment of various behavior disorders. A variety of theoretical orientations will be included. Prerequisite: PSYC 6/70371 and PSYC 6/70792; and graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60373 FAMILY THERAPY

Consideration of major theories, approaches and research in family therapy. Practical experience in conducting family therapy through supervision and discussion of ongoing cases. Prerequisite: PSYC 6/70371 and PSYC 6/70792 and graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60374 GROUP PSYCHOTHERAPY

Introduction to group psychotherapy with emphasis on theories, techniques and research findings. Prerequisite: PSYC 6/70371 and PSYC 6/70792; and graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60375 COGNITIVE BEHAVIOR THERAPY

Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues.

Prerequisite: PSYC 6/70371 and PSYC 6/70292; and graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60376 CHILD PSYCHOTHERAPY

Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies, and child therapy research. Emphasis on integration of theory, technique and research.

Prerequisite: PSYC 6/70371 and PSYC 6/70792; and graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60395 ADVANCED TOPICS-CLINICAL PSYCHOLOGY

Advanced-level consideration of selected content areas in assessment, psychotherapy psycho pathology professional issues and community psychology. Specific topics will be announced in schedule of classes.

Prerequisite: Permission and graduate standing.

1.000 TO 6.000 Credit hours

6.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60453 INTRODUCTION TO COGNITIVE PSYCHOLOGY

Information-processing approaches to human thought. Focus on processes used to transform store manipulate and retrieve sensory input. Topics include attention pattern recognition memory and language. Prerequisite: Graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60610 PSYCHOLOGY OF ADULTHOOD AND AGING

Examines psychological theory and research related to the psychology of adulthood through old age. Surveys current cognitive social developmental and clinical work on later life. Prerequisite: Graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60792 PSYCHOTHERAPY PRACTICUM

Basic training in applied aspects of psychotherapy. Through didactic and experiential methods students learn basic listening and communication skills that are then applied to specific techniques, situations and issues. Prerequisite: PSYC 6/70292; concurrent enrollment in PSYC 6/70371; and graduate standing in psychology (PSYC).

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Psychology

PSYC 60895 ADVANCED TOPICS-EXPERIMENTAL PSYCHOLOGY

Advanced-level consideration of selected content areas in experimental psychology. Specific topics will be announced in schedule of classes. Prerequisite: Special approval and graduate standing.

1.000 TO 6.000 Credit hours

6.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 60950 HISTORY AND CONTEMPORARY SYSTEMS

Relationships between historical antecedents and the major contemporary systems and theories of psychology. Prerequisite: Graduate standing in psychology (PSYC).

3.000 Credit hours

3.000 Lecture hours

Level: Graduate



Schedule Types: Lecture
Department: Psychology

PSYC 61054 LEARNING AND CONDITIONING

Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena particularly as these are exemplified in animal models of behavior. Prerequisite: Graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61133 SENSATION AND PERCEPTION

Introduction to basic sensory and perceptual processes of vision and audition. Prerequisite: Graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Special approval and graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Psychology

PSYC 61260 THEORIES OF PERSONALITY

Consideration of major theoretical orientations including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts deals less with research methods and findings. Prerequisite: Graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: PSYC 61199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Psychology

PSYC 61350 PHYSIOLOGICAL PSYCHOLOGY

Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field.

Prerequisite: Graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61496 INDIVIDUAL INVESTIGATION

Intensive pursuit of a subject matter beyond normal course coverage with possibility of associated research. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Psychology

PSYC 61498 RESEARCH

Research or individual investigation for master's level graduate students. Credits may be applied toward meeting degree requirements if department approves and if letter grade or "S" is given. Prerequisite: Graduate standing and special approval.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Psychology

PSYC 61548 PSYCHOLOGY OF GENDER AND MINORITIES

Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field. Prerequisite: Graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61580 SOCIAL PSYCHOLOGY

Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior. Prerequisite: Graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61651 QUANTITATIVE STATISTICAL ANALYSIS I

Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two semester sequence on statistical analysis. Prerequisite: Graduate standing in psychology (PSYC) and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61654 QUANTITATIVE STATISTICAL ANALYSIS II

Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis. Prerequisite: PSYC 61651 or 71651 and graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology
PSYC 61684 EXPERIMENTAL DESIGN AND METHOD
Critical analysis of research design in psychology. Advanced topics in univariate and multivariate data analyses. Prerequisite: PSYC 6/71651 and graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61685 CLINICAL RESEARCH METHODS

Consideration of research methodologies relevant to clinical psychology with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data. Prerequisite: Graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61894 COLLEGE TEACHING OF PSYCHOLOGY

Training and experience in college teaching. May be repeated to total of 6 hours. Prerequisite: Graduate standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 61993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY

Training and experience in college teaching. May be repeated to total of 6 hours. Prerequisite: Graduate standing in psychology (PSYC).
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Psychology

PSYC 62392 CLINICAL PRACTICUM

Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality. Prerequisite: Special approval and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours



Level: Graduate
Schedule Types: Practicum
Department: Psychology

PSYC 62492 ADVANCED PRACTICUM

Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model. Prerequisite: PSYC 6/70192 and PSYC 6/70292 and PSYC 6/70792; and graduate standing in psychology (PSYC).
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Psychology

PSYC 70110 INTRODUCTION TO PSYCHOPATHOLOGY: CHILD

Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70170 INTRODUCTION TO PSYCHOPATHOLOGY: ADULT

An examination of the etiology, symptomatology and theoretical models of adult psychopathology. Prerequisite: Doctoral status in psychology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70171 FAMILY INTERACTION AND PSYCHOPATHOLOGY

Introduction to the study of family interaction as it relates to the etiology and maintenance of psychopathology. Theory, methodology and research relevant to specific behavioral disorders will be covered. Prerequisite: PSYC 6/70170 and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70192 INTEGRATION PRACTICUM

Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general and from differing theoretical perspectives. Prerequisite: PSYC 6/70292 and PSYC 6/70792; and doctoral standing in psychology (PSYC).
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70272 INTRODUCTION TO PSYCHOLOGICAL ASSESSMENT

Introduction to psychological assessment as a process for solving important clinical problems. Theoretical methodological and research issues are emphasized. Students will also become familiar with major psychological tests. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70273 ADVANCED PSYCHOLOGICAL ASSESSMENT: ADULT

Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations. Prerequisite: PSYC 6/70272 and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70274 ADVANCED PSYCHOLOGICAL ASSESSMENT: CHILD

Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments, and assessment of special child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation. Prerequisite: PSYC 6/70272 and PSYC 6/70292; and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70275 BEHAVIORAL ASSESSMENT

Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues. Prerequisite: PSYC 6/70272 and PSYC 6/70292; and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70276 NEUROPSYCHOLOGICAL ASSESSMENT

Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis. Prerequisite: PSYC 6/70272 and PSYC 6/70292 and doctoral standing in psychology (PSYC).
3.000 Credit hours

3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70292 PSYCHOLOGICAL ASSESSMENT PRACTICUM

Applied aspects of material presented in PSYC 6/70272. Emphasis on administering, scoring and interpreting major assessment tools. Prerequisite: Concurrent enrollment in PSYC 6/70272 and doctoral standing in psychology (PSYC).
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Psychology

PSYC 70313 COMMUNITY PSYCHOLOGY

Introduction to conceptualizations and findings in community psychology. Special emphasis on the application of community approaches in various settings. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70324 PROFESSIONAL ISSUES AND ETHICS IN CLINICAL PSYCHOLOGY

Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions and professional organization and policy. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70325 FORENSIC PSYCHOLOGY

Consideration of the interface of psychology and the law with focus on activities in which clinical psychologists are likely to participate in relation to the legal system. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70326 CLINICAL ASPECTS OF HEALTH PSYCHOLOGY

Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention treatment and public policy. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Psychology

PSYC 70371 INTRODUCTION TO PSYCHOLOGICAL THERAPY

Introduction to psychotherapy with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered. Prerequisite: PSYC 6/70170 and PSYC 6/71260 and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70372 PSYCHOTHERAPY FOR SPECIFIC DISORDERS

Review of conceptual and empirical literature relating to psychotherapeutic treatment of various behavior disorders. A variety of theoretical orientations will be included. Prerequisite: PSYC 6/70371 and PSYC 6/70792; and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70373 FAMILY THERAPY

Consideration of major theories, approaches and research in family therapy. Practical experience in conducting family therapy through supervision and discussion of ongoing cases. Prerequisite: PSYC 6/70371 and PSYC 6/70792; and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70374 GROUP PSYCHOTHERAPY

Introduction to group psychotherapy with emphasis on theories, techniques and research findings. Prerequisite: PSYC 6/70371 and PSYC 6/70792; and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70375 COGNITIVE BEHAVIOR THERAPY

Empirical and clinical aspects of cognitive and behavioral interventions. Intended for students familiar with basic psychotherapy assessment and psychopathology issues. Prerequisite: PSYC 6/70371 and PSYC 6/70292; and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70376 CHILD PSYCHOTHERAPY

Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive behavior therapies, and child therapy research. Emphasis on integration of theory technique and research. Prerequisite: PSYC 6/70371 and PSYC 6/70792; and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

70392 SUPERVISED CLINICAL EXPERIENCE

Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of department of psychology. Requires successful completion of PSYC 6/72392. Prerequisite: PSYC 6/72392 and special approval; and doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Psychology

PSYC 70395 ADVANCED TOPICS-CLINICAL PSYCHOLOGY

Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topics will be announced in schedule of classes. Prerequisite: Special approval and doctoral standing.
1.000 TO 6.000 Credit hours
6.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70413 COGNITIVE NEUROPSYCHOLOGY

The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70436 PSYCHOLINGUISTICS

Study of relation between language and its speaker-listeners. Special emphasis placed on sentence and prose comprehension and language acquisition. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70453 INTRODUCTION TO COGNITIVE PSYCHOLOGY

Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70468 MEMORY AND COGNITION

Critical review of contemporary research and theory in memory and cognition. Prerequisite: PSYC 6/70453 and doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70485 READING PROCESSES

Analysis of basic psychological processes involved in reading with emphasis on models of the skilled reader and of learning to read. Current research is surveyed. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70604 COGNITIVE DEVELOPMENT

PSYC Examination of theories and research concerning changes in memory, perception, thought and language over the life span. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70610 PSYCHOLOGY OF ADULTHOOD AND AGING

Examines psychological theory and research related to the psychology of adulthood through old age. Surveys current cognitive, social, developmental and clinical work on later life. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70615 SOCIAL AND PERSONALITY DEVELOPMENT

Examination of theories and research in social development, with a focus on how personal relationships influence personality development. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70792 PSYCHOTHERAPY PRACTICUM

Basic training in applied aspects of psychotherapy. Through didactic and experiential methods students learn basic listening and communication skills that are then applied to specific techniques situations and issues. Prerequisite: PSYC 6/70292; and concurrent enrollment in PSYC 6/70371; and doctoral standing in psychology (PSYC).
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Psychology

PSYC 70895 ADVANCED TOPICS-EXPERIMENTAL PSYCHOLOGY

Advanced-level consideration of selected content areas in experimental psychology. Specific topics will be announced in schedule of classes. Prerequisite: Special approval and doctoral standing.
1.000 TO 6.000 Credit hours
6.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 70950 HISTORY AND CONTEMPORARY SYSTEMS

Relationships between historical antecedents and the major contemporary systems and theories of psychology. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71004 ANIMAL MEMORY PROCESSES

Examination of basic phenomena and principles of memory, as exemplified by research with animals and humans. Consideration of behavioral and biological processes in memory functioning. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71013 DRUGS AND BEHAVIOR

General principles of drug action with special attention to drugs used in the treatment of psychopathologies. Focus will be on neural mechanisms of action addiction and tolerance and drug interactions with learning and cognitive processes. Prerequisite: PSYC 6/71350; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Psychology

PSYC 71046 CONNECTIONISM AND NEURAL NETWORKS

General principles of connectionist modeling of memory, cognition and other psychological processes. Focus will be on the logic of connectionist models, plausibility of models and strategies for implementation of models. Prerequisite: PSYC 6/71350 and PSYC 6/70453; or PSYC 6/71054 and PSYC 6/71651; and special approval; and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71054 LEARNING AND CONDITIONING

Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71133 SENSATION AND PERCEPTION

Introduction to basic sensory and perceptual processes of vision and audition. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71260 THEORIES OF PERSONALITY

Consideration of major theoretical orientations including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts deals less with research methods and findings. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71307 PSYCHOBIOLOGICAL ASPECTS OF HEALTH PSYCHOLOGY

An introduction to non-neural aspects of psychobiology, with emphasis on psychoendocrinology, psychoimmunology and the psychobiologic aspects of disease. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71350 PHYSIOLOGICAL PSYCHOLOGY

Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad coverage of major topics in the field. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71498 SELECTED LITERATURE REVIEW

Comprehensive literature survey and review prepared by graduate student in area of interest. May be repeated to total of 6 hours. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Psychology

PSYC 71506 SOCIAL COGNITION

Explores both historical and current developments in cognitive social psychology including theory and research, social attention and memory, judgment and decision making, cognitive views of the self, and current debates regarding the relationship. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71507 PSYCHOSOCIAL ASPECTS OF HEALTH PSYCHOLOGY

Examines concepts of disease and their implications for health. Emphasizes psychosocial stress in disease etiology and psychological factors influencing illness recovery. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71513 PSYCHOLOGY OF ALCOHOL ABUSE

Critical review of theories and empirical research on the use and abuse of alcohol. Prerequisite: Doctoral standing in psychology (PSYC).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Psychology

PSYC 71548 PSYCHOLOGY OF GENDER AND MINORITIES

Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes motivation and behavior. Emphasis is on the broad



coverage of major topics in the field.

Prerequisite: Doctoral standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71580 SOCIAL PSYCHOLOGY

Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior. Prerequisite: Doctoral standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71651 QUANTITATIVE STATISTICAL ANALYSIS I

Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two semester sequence on statistical analysis.

Prerequisite: Doctoral standing in psychology (PSYC) and special approval.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71654 QUANTITATIVE STATISTICAL ANALYSIS II

Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two semester sequence on statistical analysis.

Prerequisites: PSYC 61651 or 71651 and doctoral standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71656 FACTOR ANALYSIS

Survey of major types of factor analytic methods employed in psychology.

Prerequisite: PSYC 6/71654 and doctoral standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71657 FIELD RESEARCH METHODS AND PROGRAM EVALUATION

Focus is on research designs used in field research and on threats to valid causal inference. Measurement and analytical issues are also examined. Prerequisite: Doctoral standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71684 EXPERIMENTAL DESIGN AND METHOD

Critical analysis of research design in psychology. Advanced topics in univariate and multivariate data analyses.

Prerequisite: PSYC 6/71651 and doctoral standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71685 CLINICAL RESEARCH METHODS

Consideration of research methodologies relevant to clinical psychology with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data.

Prerequisite: Doctoral standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71688 COMPUTER APPLICATIONS IN PSYCHOLOGY

Programming applications in psychology.

Prerequisite: PSYC 6/71651 and PSYC 6/71654; and doctoral standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71894 COLLEGE TEACHING OF PSYCHOLOGY

Training and experience in college teaching. May be repeated to total of 6 hours. Prerequisite: Doctoral standing in psychology (PSYC).

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 71993 VARIABLE TITLE WORKSHOP IN PSYCHOLOGY

Training and experience in college teaching. May be repeated to total of 6 hours. Prerequisite: Doctoral standing in psychology (PSYC).

1.000 TO 6.000 Credit hours
3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Psychology

PSYC 72345 ETHNIC MNRTY ISSUES CLNCL PSYC

Students increase their multicultural awareness and develop competencies necessary for clinical work with members of ethnic minority groups. Prerequisite: Doctoral standing and psychology (PSYC) major.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 72392 CLINICAL PRACTICUM

Beginning practicum in psychological clinic involving selection, administration and evaluation of tests of ability and personality. Prerequisite: Special approval and doctoral standing.

1.000 TO 3.000 Credit hours
3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Psychology

PSYC 72445 MULTIVARIATE STATISTICS

Intended to cover two major multivariate statistical techniques in psychology: structural equation modeling (SEM) and hierarchical linear modeling (HLM).

Prerequisite: PSYC 61651 or PSYC 71651; and PSYC 61654 or PSYC 71654; and doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Psychology

PSYC 72492 ADVANCED PRACTICUM

Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model. Prerequisite: PSYC 6/70192 and PSYC 6/70292 and PSYC 6/70792; and doctoral standing in psychology (PSYC).

1.000 TO 3.000 Credit hours
3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Psychology

PSYC 80391 SEMINAR IN CLINICAL PSYCHOLOGY

Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topics will be announced in schedule of classes. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Psychology

PSYC 80491 SEMINAR IN COGNITIVE PSYCHOLOGY

Seminar on current research in cognitive psychology. Specific topics will be announced in schedule of classes. Prerequisite: Special approval and doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Psychology

PSYC 80691 SEMINAR IN CHILD AND DEVELOPMENTAL PSYCHOLOGY

Seminar on current research in child and developmental psychology. Specific topics



will be announced in schedule of classes.
Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Psychology

PSYC 81091 SEMINAR IN LEARNING AND BIOPSYCHOLOGY

Seminar on current research in learning and biopsychology. Specific topics will be announced in the schedule of classes.

Prerequisite: Doctoral standing in psychology (PSYC).

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Psychology

PSYC 81199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours.

Prerequisite: Special approval and doctoral standing.

15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Psychology

PSYC 81299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: PSYC 81199 and doctoral standing.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Psychology

PSYC 81498 RESEARCH

Research or individual investigation for doctoral students. Credits may be applied toward degree if department approves.

Prerequisite: Special approval and doctoral standing.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Psychology

PSYC 81591 SEMINAR IN PERSONALITY AND SOCIAL PSYCHOLOGY

Seminar on current research in areas of social psychology. Specific topics will be announced in schedule of classes.

Prerequisite: Doctoral standing in psychology (PSYC).

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Psychology

PSYC 81691 SEMINAR IN QUANTITATIVE METHODS

Seminar on applications of quantitative methods within various content areas of psychology. Specific topics will be announced in schedule of classes.

Prerequisite: Special approval and doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Psychology

Physical Therapist Assistant Technology (PTST)

PTST 10000 INTRODUCTION TO PHYSICAL THERAPIST ASSISTANT

Orientation to the field of physical therapy history. Functions and responsibilities.

Legal and ethical accountability. Patient rights. Safety. Health care delivery system.

Prerequisite: None.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PTST 10001 PRINCIPLES OF PATIENT CARE IN PHYSICAL THERAPY

Underlying principles of physical therapy procedures. Equipment. Fundamentals of patient care relative to the role of the physical therapist assistant. Prerequisite: physical therapist assistant technology (PTST) major.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PTST 10002 ANALYSIS OF MOVEMENT

Function of the human body with emphasis on the musculoskeletal system. Gross body measurements. Prerequisite: BSCI 11001.

Corequisites: PTST 10003 and PTST 10004 and PTST 10005.

4.000 Credit hours

3.000 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

PTST 10003 CLINICAL CONDITIONS I

Introduction to medical conditions commonly encountered in the practice of physical therapy which affect the integumentary, digestive and endocrine systems. Will include general medical testing procedures and psychological disorders. Prerequisite: PTST 10001.

Corequisites: PTST 10002 and PTST 10004 and PTST 10005.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PTST 10004 PHYSICAL THERAPY PROCEDURES I

Theory and techniques of treatment procedures with emphasis on modalities.

Maintenance of equipment and supplies. Prerequisite: PTST 10001. Corequisites: PTST 10002 and PTST 10003 and PTST 10005.

4.000 Credit hours

4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

PTST 10005 DIRECTED PRACTICE IN PHYSICAL THERAPY I

Introduction to the practice of physical therapy procedures in the clinical setting under the supervision of a licensed physical therapist. Prerequisite: PTST 10001.

Corequisites: PTST 10002 and PTST 10003 and PTST 10004.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Regional College

PTST 10009 MEDICAL TERMINOLOGY

Terminology utilized by the medical profession. Emphasis is on definition, spelling, pronunciation and correct usage of terms. Prerequisite: none.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

PTST 10010 TRANSITIONS IN PHYSICAL THERAPY

Validates prior learning, builds knowledge necessary for the transition to the physical therapist assistant technology (PTST) program and prepares students for advance placement in PTST. Students registering for this course must have successfully completed an approved allied health program and been admitted to PTST. Students successfully completing this course with a grade of C (2.00) or better will receive credit for the following courses: PTST 10002, PTST 10004, PTST 20003, PTST 20004 and PHY 12111. Prerequisite: physical therapist assistant technology (PTST) major and special approval.

8.000 Credit hours

6.000 Lecture hours

4.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

PTST 20001 THERAPEUTIC COMMUNICATIONS IN PHYSICAL THERAPY

Focus on understanding human behavior. Emotional needs of individuals. Therapeutic use of self. Development of communication skills and interpersonal relationships.

Prerequisite: none.

1.000 Credit hours



1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

PTST 20003 CLINICAL CONDITIONS II

Continued study of medical conditions commonly encountered in the practice of physical therapy. Focus on orthopedic and cardiopulmonary pathologies. Prerequisite: PTST 10003. Corequisites: PTST 20004 and PTST 20005.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

PTST 20004 PHYSICAL THERAPY PROCEDURES II

Continuation of theory and techniques of treatment procedures. Emphasis on correlating equipment with treatment procedures and correlating application with dysfunction. Prerequisite: PTST 10004. Corequisite: PTST 20003 and PTST 20005.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

PTST 20005 DIRECTED PRACTICE IN PHYSICAL THERAPY II

Discussion and practice of physical therapy procedures and techniques in an institutional setting under the supervision of licensed physical therapy personnel. Prerequisite: PTST 10005. Corequisites: PTST 20003 and PTST 20004.
5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Regional College

PTST 20006 PHYSICAL REHABILITATION PROCEDURES

Principles and techniques of therapeutic exercise and rehabilitation in physical therapy. Prerequisite: PTST 20005.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

PTST 20007 DIRECTED PRACTICE IN PHYSICAL THERAPY III

Continued discussion and practice of physical therapy procedures and techniques in an institutional setting under the supervision of licensed physical therapy personnel. Prerequisite: PTST 20005.
6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Regional College

PTST 20008 CLINICAL CONDITIONS III

Continued study of medical conditions commonly encountered in the practice of physical therapy. Focus on geriatric

disorders, pharmacology, neurological disorders, fetal development, normal development, genetic and pediatric disorders. Prerequisite: PTST 10003 and PTST 20003.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

PTST 20010 DIRECTED PRACTICE IN PHYSICAL THERAPY TRANSITIONS

Validates prior learning and builds student knowledge of the clinical practice necessary for a physical therapist assistant. An introduction to physical therapy procedures in the clinical setting under the supervision of a licensed physical therapist, and a discussion of the procedures and techniques used in institutional settings. Students completing this course with a grade of C (2.00) or better will receive credit for PTST 10005, PTST 20005 and PTST 20007. Prerequisites: PTST 10001 and special approval. Corequisites: PTST 20006 and 20008.
7.000 Credit hours
2.000 Lecture hours
10.000 Lab hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Regional College

PTST 21095 SPECIAL TOPICS IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY

Special topics in Physical Therapist Assistant Technology; topics announced when scheduled. Prerequisite: physical therapist assistant technology (PTST) major.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

PTST 21096 INDIVIDUAL INVESTIGATION IN PHYSICAL THERAPIST ASSISTANT TECHNOLOGY

Individual study in physical therapist assistant technology and related fields; open to PTST majors. Prerequisite: physical therapist assistant technology (PTST) major.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

Radiologic Technology (RADT)

RADT 14000 INTRODUCTION TO RADIOLOGIC TECHNOLOGY

Introduction to radiologic technology program, general anatomy, introduction to radiologic procedures and positioning, imaging equipment, radiographic exposure, radiation protection, professional organizations and clinical education.

Lecture and lab plus clinical hours based on program requirements. Prerequisite: admission to program.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Clinic, Lecture
Department: Regional College

RADT 14002 INTRODUCTION TO PATIENT CARE

Medicolegal aspects of patient care, ethics, nursing procedures for radiographic examinations, techniques, radiography and taking and recording vital signs. Introduction to venipuncture and clinical pharmacology. Prerequisite: RADT 14000 with a minimum grade of C (1.7) and HED 14020.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RADT 14004 RADIOLOGIC PHYSICS

Introduction to general physics, units and measurement, atomic structure, electricity, magnetism, electromagnetism, x-ray circuitry equipment and x-ray production. Prerequisites: RADT 14019 with a minimum grade of C (1.7) and radiologic technology (RADT) majors. Corequisite: RADT 24024 with a minimum grade of C (1.7).
4.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RADT 14010 CLINICAL EDUCATION I

Supervised experience and observation with emphasis on clinical practice of basic skills of radiologic technology and the exams covered in Radiographic Procedures I. Competency testing begins. Students assigned to clinical education setting 24 hours per week. Prerequisites: RADT 14020 with a minimum grade of C (1.7) and radiologic technology (RADT) major. Corequisite: RADT 14021 with a minimum grade of C (1.7).
1.000 Credit hours
24.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RADT 14011 CLINICAL EDUCATION II

Continuation of Clinical Education I, with emphasis on clinical practice of content of previous courses plus digestive and urinary procedures, as well as head position. Students assigned to clinical education setting 24 hours per week. Prerequisites: RADT 14010 with a minimum grade of C (1.7); and radiologic technology (RADT) majors; and special approval. Corequisite: RADT 24020 with a minimum grade of C (1.7).
1.000 Credit hours
24.000 Other hours
Level: Undergraduate
Schedule Types: Clinic



Department: Regional College

RADT 14012 CLINICAL EDUCATION III

Continuation of Clinical Education II, with emphasis on clinical practice of content of previous courses. More emphasis on independent clinical practice of procedures previously mastered. Students assigned to clinical education setting 32 hours per week. Prerequisites: RADT 14011 with a minimum grade of C (1.7); and radiologic technology (RADT) majors and special approval.

1.000 Credit hours

32.000 Other hours

Level: Undergraduate

Schedule Types: Clinic

Department: Regional College

RADT 14013 CLINICAL EDUCATION IV

continuation of Clinical Education III, with emphasis on clinical practice of content of previous courses. More emphasis on independent clinical practice of procedures previously mastered. Students assigned to clinical education setting 32 hours per week. Prerequisite: RADT 14012 with a minimum grade of C (1.7); and radiologic technology (RADT) major and special approval.

1.000 Credit hours

32.000 Other hours

Level: Undergraduate

Schedule Types: Clinic

Department: Regional College

RADT 14019 RADIOGRAPHIC EXPOSURE AND IMAGING I

Equipment used in medical imaging, including radiographic x-ray tubes, filtration, beam restrictors, grids, imaging detectors used in intensifying screens and digital imaging, radiographic film and automatic processing. Prerequisites: RADT 14000 with a minimum grade of C (1.7); and radiologic technology (RADT) majors. Corequisite: RADT 14010 with a minimum grade of C (1.7).

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RADT 14020 RADIOGRAPHIC PROCEDURES I

Introduction to radiographic procedures and positioning of the chest, abdomen and hands. Lecture, lab and 16 hours of clinical education per week for five weeks.

Prerequisites: RADT 14000 with a minimum grade of C (1.7); and radiologic technology (RADT) major.

2.000 Credit hours

1.000 Lecture hours

1.000 Lab hours

16.000 Other hours

Level: Undergraduate

Schedule Types: Clinic, Combined

Lecture/Lab

Department: Regional College

RADT 14021 RADIOGRAPHIC PROCEDURES II

Radiographic anatomy, positioning and image evaluation of the upper and lower extremities, shoulder and pelvic girdles, bony thorax and vertebral spine. Three hours lecture and two hours lab.

Prerequisite: RADT 14020 with a minimum grade of C (1.7); and radiologic technology (RADT) major. Corequisite: RADT 14010 with a minimum grade of C (1.7).

4.000 Credit hours

3.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

RADT 14022 RADIOGRAPHIC EXPOSURE AND IMAGING II

Aspects of radiographic quality, fluoroscopic equipment, X-ray timers, and tomography. Experiments involving the factors that influence radiographic quality.

Two hours lecture, two hours lab weekly.

Prerequisite: RADT 14019 with a minimum grade of C (1.7).

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RADT 14096 INDIVIDUAL INVESTIGATION IN DIRECTED READINGS IN RADIOLOGIC TECHNOLOGY

Student selects prescribed number of medical journals, completes questions, paper and presentation. Prerequisite: Radiologic technology (RADT) major.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Regional College

RADT 21095 SPECIAL TOPICS IN RADIOLOGIC TECHNOLOGY

(repeated registration permitted) Student participation course on topics pertinent to radiologic technology. Topics are chosen by the instructor. Student may enroll in course more than once. Prerequisite: special approval from instructor.

2.000 TO 4.000 Credit hours

2.000 TO 4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RADT 24000 MEDICAL TERMINOLOGY

Method of construction and recognition of medical terms from Greek and Latin prefixes, suffixes, word roots and combining forms. Radiologic terminology is emphasized. Prerequisite: Admission to the program.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RADT 24001 RADIOLOGIC PATHOLOGY

Introduction to disease and injury states and their application to radiologic technology. Each anatomical system and radiologic imaging modality is discussed. Prerequisite: BSCI 11010; and BSCI 11020 with a minimum grade of C (1.7); and HED 14020; and RADT 24024 with a minimum grade of C (1.7); and radiologic technology (RADT) major. Corequisite: RADT 24011 with a minimum grade of C (1.7).

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RADT 24002 RADIATION PROTECTION

Overview of the principles of the interaction of radiation with living systems. Factors affecting biological response are presented, including acute and chronic effects of radiation. Overview of radiation protection including responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory and accreditation agencies and health care organizations are incorporated.

Prerequisites: BSCI 11020 and RADT 14000 and radiologic technology (RADT) majors.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RADT 24010 CLINICAL EDUCATION V

Continuation of Clinical Education IV, with emphasis on clinical practice of content of previous courses. More emphasis on independent clinical practice of procedures previously mastered. Students assigned to clinical education setting 24 hours per week and rotate to special medical imaging areas. Prerequisites: RADT 14013 with a minimum grade of C (1.7); and radiologic technology (RADT) majors and special approval.

1.000 Credit hours

24.000 Other hours

Level: Undergraduate

Schedule Types: Clinic

Department: Regional College

RADT 24011 CLINICAL EDUCATION VI

Continuation of Clinical Education V, with emphasis on clinical practice of content of previous courses. More emphasis on critical thinking, problem solving and independent clinical practice of procedures previously mastered. Students assigned to clinical education setting 24 hours per week. Prerequisite: RADT 24010 with a minimum grade of C (1.7); and radiologic technology (RADT) majors and special approval.

1.000 Credit hours

24.000 Other hours

Level: Undergraduate

Schedule Types: Clinic

Department: Regional College



RADT 24020 RADIOGRAPHIC PROCEDURES III

Radiographic anatomy and positioning of the gastrointestinal, biliary and urinary systems and head positioning. Prerequisites: RADT 14021 with a minimum grade of C (1.7) and radiologic technology (RADT) major and special approval. Corequisite: RADT 14011 with a minimum grade of C (1.7). 4.000 Credit hours 3.000 Lecture hours 2.000 Lab hours Level: Undergraduate Schedule Types: Combined Lecture/Lab Department: Regional College

RADT 24024 ADVANCED IMAGING

The procedures and equipment used in advanced medical imaging including fluoroscopy, mammography, CT, MRI, cardiac, vascular and interventional imaging, nuclear medicine, PET imaging, diagnostic medical sonography and radiation therapy. Quality assurance is also reviewed. Prerequisite: RADT 14013 with a minimum grade of C (1.7); and radiologic technology (RADT) major and special approval. Corequisite: RADT 24010 with a minimum grade of C (1.7). 4.000 Credit hours 4.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

RADT 24048 RADIOGRAPHIC TECHNIQUES

Review of radiologic technology to include patient care, anatomy and physiology, radiologic procedures, equipment and image production, radiologic physics, and radiation protection in preparation for the radiography certification exam. Prerequisites: BSCI 11020, RADT 14002 and 14004 and 14022 and 24002 and 24002 all with a minimum grade of C (1.7). Restricted to the Ashtabula and Salem campuses only. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

RADT 24058 DIVERSIFIED EMPLOYMENT

Course features multiple topics in medical imaging to prepare graduates for employment in healthcare. Prerequisite: Radiologic technology (RADT) major. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

RADT 24096 INDIVIDUAL INVESTIGATION IN RADIOLOGIC TECHNOLOGY

Directed research of special interest or need in the student's program. A research paper will be written on an assigned topic in

radiologic technology. Prerequisite: RADT 14000 with a minimum grade of C (1.7).

1.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

RADT 24196 INDIVIDUAL INVESTIGATION IN ADVANCED READINGS IN RADIOLOGIC TECHNOLOGY

Course permits scholarly activities for research, study and summary of medical journal articles. Information aids in understanding recent advancements in medical imaging. Prerequisite: Radiologic technology (RADT) major. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Individual Investigation Department: Regional College

Real Estate and Related Technologies (RERT)

RERT 11000 REAL ESTATE PRINCIPLES AND PRACTICES

Introduction to listing, selling, real estate math, legal descriptions of property and contracts. Prerequisite: None. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

RERT 11001 REAL ESTATE LAW

Review of basic Ohio laws covering the functions of an agency and the legal aspects of real estate transactions. Prerequisite: RERT 11000. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

RERT 11003 REAL ESTATE FINANCING

Covers types of institutions, instruments and procedures involved in financing real estate transactions. Covers nature and characteristics of mortgage loans and nature of mortgage market. Prerequisite: RERT 11000. 2.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RERT 21000 REAL ESTATE APPRAISAL

Emphasizes methodology of appraising urban real property and appraisal techniques. Presents market approach to residential appraisal. Prerequisite: RERT 11000. 2.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

RERT 21003 SPECIAL TOPICS IN REAL ESTATE

Seminar involving discussion of current issues and solutions to special problems in real estate investment, management and brokerage operations. Prerequisite: RERT 11000 and RERT 11001 and RERT 11003 and RERT 21000. 2.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

Rehabilitation Counseling (RHAB)

RHAB 47712 INTRODUCTION TO REHABILITATION

Introductory course surveys philosophy, history and legislation in rehabilitation which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors. Prerequisite: Junior or senior standing. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Lifespan Development and Educational Sciences

RHAB 57712 INTRODUCTION TO REHABILITATION

Introductory course surveys philosophy, history, and legislation in rehabilitation which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors. Prerequisite: Graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Lifespan Development and Educational Sciences

RHAB 60093 VARIABLE TITLE WORKSHOP IN REHABILITATION COUNSELING

Prerequisite: Graduate standing and special approval. 1.000 TO 4.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Workshop Department: Lifespan Development and Educational Sciences

RHAB 60199 THESIS I

Thesis students must register each semester until all degree requirements are met. Prerequisite: Graduate standing. 2.000 TO 6.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Master's Thesis Department: Lifespan Development and Educational Sciences

**RHAB 60299 THESIS II**

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: RHAB 60199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Lifespan Development and Educational Sciences

RHAB 67723 MEDICAL INFORMATION FOR REHABILITATION COUNSELORS

Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Clerkship
Department: Lifespan Development and Educational Sciences

RHAB 67725 PSYCHOSOCIAL IMPACT OF DISABILITY

Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization stigma and adjustment to loss emphasized. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

RHAB 67728 ADJUSTMENT AND TRAINING GROUPS

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

RHAB 67729 MEASUREMENT AND APPRAISAL IN REHABILITATION

Review of measurement theory and principles as applied in rehabilitation. Demonstration of instruments used in vocational assessment. Simulation of psychological consultation. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

RHAB 67731 INDIVIDUAL COUNSELING PROCEDURES IN REHABILITATION COUNSELING

Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal-setting and program development are fostered by lecture, video feedback and simulation. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

RHAB 67732 OCCUPATIONAL ASPECTS OF DISABILITY

An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches. Prerequisite: CHDS 6/78182 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

RHAB 67736 INDIVIDUAL COUNSELING PRACTICUM IN REHABILITATION

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings. Prerequisite: RHAB 67731 or RHAB 77731; and graduate standing.
2.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

RHAB 67743 PSYCHIATRIC REHABILITATION

Review of psychiatric, alcohol and other drug related disabilities and their treatment. Topics include psychosocial rehabilitation, case management, and psychotropic medication. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

RHAB 67744 DRUG AND ALCOHOL REHABILITATION

Review of substance abuse treatments, trends, modalities and community agencies; vocational implications of substance abuse; vocational assessment issues and job placement options. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

RHAB 67776 SEMINAR ON RESEARCH IN DISABILITIES

Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design statistical analysis and conclusions. Pre- or corequisite: EDPF 65510 and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

RHAB 67795 SPECIAL TOPICS IN REHABILITATION

Presentation of special interest to students. Offered irregularly. Topic will be announced in schedule of classes booklet. Prerequisite: Graduate standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

RHAB 67796 INDIVIDUAL INVESTIGATION IN REHABILITATION COUNSELING

Independent reading and/or research directed by a graduate faculty member. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Lifespan Development and Educational Sciences

RHAB 67798 INDIVIDUAL RESEARCH IN REHABILITATION

Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration. Prerequisite: Graduate standing and special approval.
1.000 TO 9.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Lifespan Development and Educational Sciences

RHAB 70093 VARIABLE TITLE WORKSHOP IN REHABILITATION COUNSELING

Prerequisite: Doctoral standing and special approval.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Lifespan Development and Educational Sciences



RHAB 77712 INTRODUCTION TO REHABILITATION

Introductory course surveys philosophy, history and legislation in rehabilitation which is defined as a process, social movement and public mandate. Particular emphasis is given to the role and function of the rehabilitation counselor in the private and public sectors. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

RHAB 77723 MEDICAL INFORMATION FOR REHABILITATION COUNSELORS

Study of the physical impact of disease or injury on individuals; available medical and restorative resources skills in interpreting medical reports and rehabilitation planning. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Clerkship

Department: Lifespan Development and Educational Sciences

RHAB 77725 PSYCHOSOCIAL IMPACT OF DISABILITY

Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization, stigma and adjustment to loss emphasized. Prerequisite: Doctoral standing.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

RHAB 77728 ADJUSTMENT AND TRAINING GROUPS

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

RHAB 77729 MEASUREMENT AND APPRAISAL IN REHABILITATION

Review of measurement theory and principles as applied in rehabilitation. Demonstration of instruments used in vocational assessment. Simulation of psychological consultation. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

RHAB 77731 INDIVIDUAL COUNSELING PROCEDURES IN REHABILITATION COUNSELING

Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal-setting and program development are fostered by lecture, video feedback and simulation. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

RHAB 77732 OCCUPATIONAL ASPECTS OF DISABILITY

An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches. Prerequisite: CHDS 6/78182 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

RHAB 77736 INDIVIDUAL COUNSELING PRACTICUM IN REHABILITATION

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings. Prerequisite: RHAB 67731 or RHAB 77731 and doctoral standing.

2.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

RHAB 77743 PSYCHIATRIC REHABILITATION

Review of psychiatric, alcohol and other drug related disabilities and their treatment. Topics include psychosocial rehabilitation, case management and psychotropic medication. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

RHAB 77744 DRUG AND ALCOHOL REHABILITATION

Review of substance abuse treatments, trends, modalities and community agencies; vocational implications of substance abuse; vocational assessment issues and job placement options. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

RHAB 77776 SEMINAR ON RESEARCH IN DISABILITIES

Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design statistical analysis and conclusions. "IP" permissible. Pre- or corequisite: EDPF 66510 and doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

RHAB 77792 INTERNSHIP: REHABILITATION

Assignment to rehabilitation agency for extensive and intensive applications appropriate for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and university instructor. May be repeated. Credit hour reduction for prior experience may be granted. Prerequisite: RHAB 6/77736 and doctoral standing.

6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

RHAB 77795 SPECIAL TOPICS IN REHABILITATION

Presentation of special interest to students. Offered irregularly. Topic will be announced in schedule of classes booklet. Prerequisite: Doctoral standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

RHAB 77796 INDIVIDUAL INVESTIGATION IN REHABILITATION COUNSELING

Independent reading and/or research directed by a graduate faculty member. Prerequisite: Doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

RHAB 77798 INDIVIDUAL RESEARCH IN REHABILITATION

Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration.



Prerequisite: Doctoral standing and special approval.

1.000 TO 9.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences

RHAB 88129 ADVANCED ASSESSMENT IN REHABILITATION

Psychological, neurological and vocational assessment, assessment of independent living skills, sensory and cognitive impairments, ethical standards in assessment, theory and issues in research. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

RHAB 88182 PSYCHOLOGICAL ADJUSTMENT TO DISABILITY

Psychosocial aspects of disability; models of adjustment; attitudinal barriers. Prerequisite: RHAB 67725 and doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

RHAB 88188 HISTORY AND SYSTEMS OF REHABILITATION PSYCHOLOGY

Historical development of rehabilitation programming and psychology; basic philosophy, theoretical systems and process; professional and scientific ethics; professionalization; professional issues and research. Prerequisite: RHAB 67712 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

Radiologic and Imaging Sciences (RIS)

RIS 34003 RADIATION THERAPY PRINCIPLES/PRACTICE I

An overview of cancer, radiation therapy and its physical and technical aspects. Includes the roles/responsibilities of the therapist, treatment parameters, documentation and delivery of patient care, education and procedures. Prerequisite: radiologic and imaging sciences (RIS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34004 RADIATION THERAPY PATIENT MANAGEMENT

Provides the basic concepts in patient assessment and evaluation. Includes communication skills, infection control, nutrition, medications, exams, emergencies, patient transfer techniques, medical ethics and law as applied to radiation therapy. Prerequisite: radiologic and imaging sciences (RIS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34008 RADIATION THERAPY PHYSICS I

Introduction to radiation therapy physics, including the fundamentals of atomic structure, radiation properties, radiation production, radiation quality, interactions of radiation with matter and principles of radiation detectors. Prerequisite: radiologic and imaging sciences (RIS) major

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34030 RADIATION THERAPY CLINICAL EDUCATION I

Observation and supervised clinical education with emphasis on administering radiation therapy treatments, simulation block formation and patient care. Students are assigned to a clinical education site for approximately 16 hours per week. Prerequisite: radiologic and imaging sciences (RIS) major.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Clinic

Department: Regional College

RIS 34040 PATIENT MANAGEMENT IN DIAGNOSTIC MEDICAL SONOGRAPHY

Methods of patient management in diagnostic medical sonography are examined with emphasis on patient communication, clinical assessment, medical legal aspects, medical records, emergencies, pharmacology, safety issues, ethics and critical thinking. Prerequisite: RIS majors.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34042 ABDOMINAL SONOGRAPHY I

Anatomy, physiology and pathology of the abdomen; instrumentation and scanning techniques; normal and abnormal sonographic appearances of abdominal structures will be presented. Prerequisite: radiologic and imaging sciences (RIS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture
Department: Regional College

RIS 34044 ULTRASOUND PHYSICS AND INSTRUMENTATION

Ultrasound principles to include interaction of sound with matter, propagation of sound in tissue, physical units, transducer parameters, image storage and display, quality assurance, bioeffects, image artifacts and physical principles of Doppler. Prerequisite: radiologic and imaging sciences (RIS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34045 ULTRASOUND CLINICAL EDUCATION I

Provides clinical education and experience at a clinical site to allow students the opportunity to practice skills necessary to obtain high quality sonographic images to alter protocols based on patients and to identify image quality problems. Prerequisite: radiologic and imaging sciences (RIS) major.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Clinic

Department: Regional College

RIS 34052 ABDOMINAL SONOGRAPHY II

Continuation for RIS 34042; anatomy, physiology and pathology of the abdomen; instrumentation and sonographic scanning techniques; normal and abnormal sonographic appearance of abdominal structures will be presented. Prerequisite: RIS 34042 and radiologic and imaging science (RIS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34055 ULTRASOUND CLINICAL EDUCATION II

Provides clinical education and experience in abdominal Sonography at clinical sites to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to evaluate image quality. Prerequisites: RIS 34045 and radiologic and imaging sciences (RIS) major.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Clinic

Department: Regional College

RIS 34062 OBSTETRICS AND GYNECOLOGY SONOGRAPHY I

Anatomy and pathophysiology of the non-pregnant female pelvis; instrumentation and scanning techniques; normal and abnormal sonographic appearances; and findings of the female reproductive tract are covered.



Prerequisite: RIS 34045 and radiologic and imaging sciences (RIS) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34065 ULTRASOUND CLINICAL EDUCATION III

Provides clinical education and experience at clinical sites to allow students the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to evaluate image quality. Prerequisites: RIS 34055 and radiologic and imaging sciences (RIS) major. Corequisite: RIS 44072.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Clinic, Laboratory

Department: Regional College

RIS 34082 SMALL PARTS SONOGRAPHY

Anatomy and pathophysiology of superficial structures; instrumentation and scanning techniques; normal and abnormal sonographic appearances of superficial structures; correlation with laboratory findings and other imaging modalities are presented. Prerequisites: RIS 34083 and radiologic and imaging sciences (RIS) major.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34083 SECTIONAL ANATOMY IN MEDICAL IMAGING

Presentation of sectional anatomy of the body in the transverse (axial), sagittal and coronal planes as seen in medical images in CT, MRI and diagnostic medical sonography. Prerequisite: radiologic and imaging sciences (RIS) major; and BSCI 11000 and 11020 or 20020; and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34084 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY I

Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images. Prerequisite: radiologic and imaging science (RIS) major.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 34086 COMPUTED TOMOGRAPHY AND MAGNETIC RESONANCE IMAGING SECTIONAL ANATOMY II

Presentation of sectional anatomy of the human body in computed tomography and magnetic resonance imaging. Includes orientation of organs and structures and pathological processes present in images as seen in the extremities. Prerequisites: RIS 34084 and radiologic and imaging science (RIS) majors.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 41095 SPECIAL TOPICS IN RADIOLOGIC AND IMAGING SCIENCES

Courses will consist of various topics in medical imaging designed to enhance learning outcomes. Prerequisite: Radiologic and imaging sciences (RIS) major.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 44000 INTRODUCTION TO RADIOLOGIC AND IMAGING SCIENCES

An introduction to radiology patient care techniques and clinical procedures for freshman entry students admitted to the RIS major in nuclear medicine and radiation therapy. Prerequisite: RIS majors.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 44001 PATIENT MANAGEMENT IN NUCLEAR MEDICINE

Provides the student with a working knowledge of a health care facility's function, basic patient care skills, emergency care, patient communications and professionalism. Interactions and care of diverse populations will also be addressed. Course enables the student to provide appropriate care for the patient while undertaking any nuclear medicine procedure. Corequisites: RIS 44002 and 44005 and 44006 and 44011 and radiologic and imaging science (RIS) majors and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 44002 NUCLEAR MEDICINE PROCEDURES I

An anatomical and physiological review of the skeletal, cardiovascular, gastrointestinal, endocrine, genitourinary, respiratory, lymphatic and central nervous organ systems. Basic nuclear medicine imaging procedures as related to the above listed organ systems is covered.

Prerequisite: radiologic and imaging science (RIS) major and special approval.

Corequisites: RIS 44001 and 44005 and 44006 and 44011.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 44005 NUCLEAR MEDICINE CLINICAL EDUCATION I

Students acquire clinical experience in nuclear medicine procedures and patient care at the assigned clinical education site. Includes an orientation to program and policies, observations of procedures, patient management, radiopharmacy, radiation safety, quality control and equipment orientation. competency testing begins. Prerequisites: radiologic and imaging science (RIS) major and special approval. Corequisites: RIS 44001 and 44002 and 44006 and 44011.

2.000 Credit hours

2.000 Lab hours

16.000 Other hours

Level: Undergraduate

Schedule Types: Clinic, Laboratory

Department: Regional College

RIS 44006 NUCLEAR MEDICINE PHYSICS AND INSTRUMENTATION I

Explores the concepts of the physical principles of nuclear physics including radioactive decay and interactions with matter. Radiation detector and laboratory equipment applications, functions and limitations is included. Prerequisites: radiologic and imaging science (RIS) major and special approval. Corequisites: RIS 44001 and 44002 and 44005 and 44011.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RIS 44010 NUCLEAR MEDICINE CLINICAL EDUCATION II

Continuation of Clinical Education I. Instructed at both the clinical education sites and Salem Campus, with particular emphasis on clinical procedures covered in RIS 44002 (Nuclear Medicine Procedures I) and RIS 44012 (Nuclear Medicine Procedures II). Clinical correlation for Radiopharmacy rotations and RIS 44014 (Nuclear Medicine Physics and Instrumentation II) included. Competency testing continues; proficiency testing begins. Prerequisites: RIS 44005; radiologic and imaging sciences (RIS) major and special approval. Corequisites: RIS 44012 and 44014 and 44017.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Clinic, Laboratory

Department: Regional College

RIS 44011 NUCLEAR MEDICINE RADIOPHARMACY

Course includes the methodologies, calculations and basic properties of radiopharmaceuticals. Radiopharmaceutical



chemistry is applied. Localization methods, quality control and radiation safety issues are examined. Non-radioactive interventional drugs, radiopharmacy management and governing rules and regulations are also explored. Corequisites: RIS 44001 and 44002 and 44005 and 44006 and radiologic and imaging science (RIS) major.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44012 NUCLEAR MEDICINE PROCEDURES II

Biological, anatomical, physiological and procedural aspects of nuclear medicine as related to the cardiovascular system, the endocrine system, the genitourinary system, inflammatory and tumor imaging, the central nervous system, the gastrointestinal system, the respiratory system and the skeletal system. Prerequisites: RIS 44002; and radiologic and imaging science (RIS) major. Corequisite: RIS 44010.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44013 RADIATION THERAPY PRINCIPLES/PRACTICE II

Examines the multidisciplinary treatment approaches. Consists of advanced topics in therapy, chemotherapy, immunotherapy surgical interventions, for combined modalities, for benign conditions, for managing side effects/emergencies. Prerequisite: RIS 34003.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44014 NUCLEAR MEDICINE PHYSICS AND INSTRUMENTATION II

Explores the use and quality control of nuclear medicine instrumentation. Students understand the function of radiation detection devices to include counting and imaging equipment and SPECT instrumentation. Computer applications as related to nuclear medicine is addressed. Prerequisites: RIS 44001 and 44002 and 44006 and 44011 and radiologic and imaging science (RIS) major and special approval. Corequisites: RIS 44010 and 44012 and 44017.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44015 NUCLEAR MEDICINE CLINICAL EDUCATION III

Instructed at both the clinical education sites and Salem Campus. Emphasizes clinical procedures covered in RIS 44012

(Nuclear Medicine Procedures II) and RIS 44014 (NM Physics and Instrumentation II). competency testing and proficiency testing continues. Prerequisites: RIS 44010; radiologic and imaging science (RIS) major; and special approval. Corequisite: RIS 44016.
2.000 Credit hours
2.000 Lab hours
24.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44016 NUCLEAR MEDICINE PROCEDURES III

Nuclear medicine hematology and immunology, radionuclide therapy, pediatric imaging, and emerging technologies, including PET CT, SPECT CT and PET MRI procedures. Prerequisites: RIS 44012; and radiologic and imaging sciences; and special approval. Corequisite: RIS 44015.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44017 NUCLEAR MEDICINE RADIATION SAFETY

Includes the units of radiation measurement, radiation exposure dose limits, radiation safety regulations and monitoring devices, safe handling and contamination control of radioactive materials. Also presented are biologic effects of radiation, patient dosimetry, NRC/ODH licensing requirements, rules and regulations, including Title 10 CFR Parts 19, 20 and 35. Prerequisites: RIS 44006; and radiologic and imaging science (RIS) major; and special approval. Corequisite: RIS 44014.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44018 RADIATION THERAPY PHYSICS II

Continuation of the principles of radiation therapy physics and the study of photon beam dosimetry, electron beam dosimetry and treatment planning. Prerequisite: RIS 34008.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44019 NUCLEAR MEDICINE PROCEDURES IV

Correlates nuclear medicine imaging procedures covered in RIS 44012 and RIS 44016 with clinical practice. Prerequisites: RIS 44012 and 44016; and special approval.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture

Department: Regional College

RIS 44020 NUCLEAR MEDICINE CLINICAL EDUCATION IV

Instructed at both the clinical education sites and Salem Campus. Emphasizes advanced procedures, SPECT and PET scanning, advanced and emerging technologies, teleradiology and PACS, and critical thinking skills for the clinical site. Competency testing is completed. Graduate competency evaluations are performed. Prerequisites: RIS 44015; radiologic and imaging science (RIS) major; and special approval. Corequisites: RIS 44026 and 44032.
3.000 Credit hours
2.000 Lab hours
24.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Laboratory
Department: Regional College

RIS 44021 PATIENT MANAGEMENT IN COMPUTED TOMOGRAPHY

Provides knowledge about care-giving skills for patients undergoing CT exams. Information includes effective communication, problem-solving techniques, patient safety/comfort, patient preparation, monitoring, contrast agents and venipuncture. Prerequisite: radiologic and imaging sciences (RIS) major.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44022 COMPUTED TOMOGRAPHY IMAGING PROCEDURES

Presentation of information about CT scanning techniques related to each part of the body as well as special studies. Positioning criteria protocols and variations from routine exams will be included. Image quality evaluation criteria will be discussed. Prerequisite: radiologic and imaging sciences (RIS) major.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44023 NUCLEAR MEDICINE PHYSICS AND INSTRUMENTATION III

Explains the physics and use of Computed Tomography instrumentation and PET instrumentation as well as quality assurance. Fusion imaging with PET CT and SPECT CT as well as other emerging technologies in instrumentation is addressed. Prerequisites: RIS 44006 and 44014; radiologic and imaging sciences (RIS) major; and special approval. Corequisites: RIS 44015 and 44016.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College



RIS 44024 PHYSICAL PRINCIPLES OF COMPUTED TOMOGRAPHY

Information presented about data acquisition and processing. The components in the image acquisition system are outlined. The software and technical parameters used in the acquisition of images is discussed. Problem-solving methodologies are discussed. Prerequisite: radiologic and imaging sciences (RIS) major; and RADT 14004 and COMT 11000. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44025 COMPUTED TOMOGRAPHY (CT)CLINICAL EDUCATION I

Provides clinical education at a clinical site so students can observe and become familiar with ct equipment and procedures, and apply knowledge of physics and patient care. Students begin to perform some ct procedures under direct supervision of technologists. Prerequisite: radiologic and imaging sciences (RIS) major. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44027 COMPUTED TOMOGRAPHY (CT)CLINICAL EDUCATION II

Continuation of RIS 44025. Students apply knowledge of physics, patient care, sectional anatomy and pathology in the performance of CT clinical competency exams. Students act more independently using critical thinking skills. Prerequisite: RIS 44025. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44028 RADIATION THERAPY RADIOBIOLOGY

Establishes a foundation in radiation biology for radiation therapy. Cell biology and its response to radiation are reviewed as well as the effect of radiation on pathology and body systems. Prerequisite: RIS 44018. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44029 RADIATION THERAPY PATHOLOGY I

General overview of various disease processes with emphasis on cancer types. Includes epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the head and neck, central nervous, respiratory and digestive systems. Prerequisites: RIS 34003 and 34004 and 34030 and radiologic and imaging science

(RIS) majors. Corequisites: RIS 44013 and 44040.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44031 PATIENT MANAGEMENT IN MRI

Provides information on the role of the MRI technologist in maintaining patient safety and comfort as well as personal and co-worker safety. MR contrast agents and venipuncture will be studied. Includes problem solving with diverse patient types. Prerequisite: radiologic and imaging sciences (RIS) major. 2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44033 COMPUTED TOMOGRAPHY TECHNIQUES

Integrates concepts of computed tomography including patient care, imaging procedures, physics and instrumentation in preparation for national certification examination. Prerequisites: RIS 44024 and special approval. 1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44035 MRI CLINICAL EDUCATION I

Students observe and become familiar with MRI equipment and procedures, and apply knowledge of physics, MRI safety and patient care. Students begin to perform some procedures under direct supervision of technologists. Prerequisite: radiologic and imaging sciences (RIS) major. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44036 MRI CLINICAL EDUCATION II

Continuation of RIS 44035. Students apply knowledge of physics, patient care, anatomy and pathology when performing clinical competency exams as well as quality assurance procedures. Some applications to special procedure exams. Prerequisite: RIS 44035. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44037 MRI CLINICAL EDUCATION III

Continuation of RIS 44036. Students use critical thinking skills in performing MRI exams in the clinical setting and solve problems in a more independent manner. Students complete all required clinical competency exams. Prerequisite: RIS 44036.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44038 RADIATION THERAPY PHYSICS III

Includes determination of radiation intensity, use of high energy beams, linear accelerators, other high energy machines, geometry of photon beams, clinical application in treatment planning and safety. Prerequisite: RIS 44018. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44039 NUCLEAR MEDICINE TECHNIQUES

Course integrates concepts of radiation physics, and nuclear medicine instrumentation and quality control, radiopharmacy and radiation safety in preparation for national certification examinations. Prerequisites: RIS 44023, RIS 44011, RIS 44017; and special approval. Corequisite: RIS 44026. 2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44040 RADIATION THERAPY CLINICAL EDUCATION II

Continuation of Clinical Education I with emphasis on clinical practice of treatment techniques and planning. Students are assigned to clinical education site for approximately 24 hours per week. Prerequisite: RIS 34030. 1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44041 RADIATION THERAPY QUALITY MANAGEMENT

Provides overview of quality management programs and continuing quality improvement in radiation therapy. Topics include validity of quality assurance checks, chart checks, image checks, testing on simulators, linear accelerators and brachytherapy sources. Prerequisite: RIS 44018. 2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44042 RADIATION THERAPY PATHOLOGY II

Continuation of Radiation Therapy Pathology I to include epidemiology, etiology, symptoms, metastases, histology, tumor grading, staging, detection, screening and diagnosis, treatment, side effects and prognosis of malignancies of the



reproductive, urinary, endocrine, circulatory, lymphatic, integumentary and musculoskeletal systems as well as pediatric solid malignancies. Prerequisites: RIS 34083 and 44029 and 44040 and radiologic and imaging science (RIS) major and special approval. Corequisites: RIS 44028 and 44050.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44043 RADIATION THERAPY PRINCIPLES/PRACTICE III

Review and testing of major subject areas from all radiation therapy courses to prepare students to successfully pass the national certification exam based on the content specifications from the American Registry of Radiologic Technologists (ARRT). Prerequisites: RIS 44013 and radiologic and imaging science (RIS) major.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44044 MRI PROCEDURES I

Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for all areas of the body except extremities and vascular areas. Corequisite: RIS 44036 and radiologic and imaging science (RIS) major.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44045 MAGNETIC RESONANCE IMAGING PROCEDURES II

Provides the imaging techniques related to the body, special clinical applications, coil selection, scan sequences, protocols, positioning criteria, normal and abnormal anatomical and pathologic structures and signal characteristics for the extremities and vascular areas. Prerequisites: RIS 44044 and radiologic and imaging science (RIS) major. Corequisite: RIS 44036.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44046 MAGNETIC RESONANCE IMAGING TECHNIQUES

Integrates concepts of magnetic resonance imaging including patient care, imaging procedures, data acquisitions and processing as well as principles of image formation. Prerequisites: RIS 44051 and special approval.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Regional College

RIS 44050 RADIATION THERAPY CLINICAL EDUCATION III

Continuation of Clinical Education II with added emphasis on critical thinking, problem solving and clinical competency. Students are assigned to clinical education site for approximately 24 hours per week. Prerequisite: RIS 44040.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44051 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION I

Develops and understanding of the physics of MR image acquisition and the hardware used. Provides information in the use and manipulation of the instrumentation and technical parameters used in the generation of images. Establishes safety procedures. Corequisites: RIS 44036 and radiologic and imaging science (RIS) major.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44052 MAGNETIC RESONANCE EQUIPMENT AND IMAGE ACQUISITION II

Develops an understanding of MR image acquisition and the hardware used. Provides information in the use and manipulation of the hardware and technical parameters used in the generation of images. Reviews safety special applications such as advanced imaging techniques. Enables the student to maximize MR image quality. Prerequisite: RIS 44051 and radiologic and imaging science (RIS) majors. Corequisite: RIS 44036.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44060 RADIATION THERAPY CLINICAL EDUCATION IV

Continuation of Clinical Education III with added emphasis on critical thinking, problem solving and clinical competency. Students are assigned to clinical education site for approximately 24 hours per week. Prerequisite: RIS 44050.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44070 RADIATION THERAPY CLINICAL EDUCATION V

Continuation of Clinical Education IV with added emphasis on clinical practice, treatment procedures, simulation and treatment planning. Students are assigned to clinical education site for approximately

24 hours per week. Prerequisite: RIS 44060.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44072 OBSTETRICS AND GYNECOLOGY SONOGRAPHY II

Embryonic and fetal development throughout gestation; fetal measurements, normal fetal anatomy and physiology; and abnormal sonographic appearances of the fetus will be covered as well as invasive obstetric procedures and antepartum testing. Prerequisite: RIS 34062.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44074 VASCULAR SONOGRAPHY

Anatomy, physiology and hemodynamics of the cerebrovascular, abdominal and peripheral vascular systems; normal and abnormal sonographic vascular appearances; Doppler instrumentation and scanning techniques are covered. Prerequisites: RIS 44075 and radiologic and imaging sciences (RIS) major.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44075 ULTRASOUND CLINICAL EDUCATION IV

Provides clinical education and experiences at clinical sites to allow student the opportunity to practice skills necessary to obtain high quality sonographic images, to alter protocols based on patients and to evaluate image quality. Prerequisites: RIS 34065 and radiologic and imaging sciences (RIS) major.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44078 SONOGRAPHIC TECHNIQUES

Course integrates diagnostic medical sonography concepts in preparation for certification exams. Prerequisite: Radiologic and imaging sciences (RIS) major.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44083 PATHOPHYSIOLOGY FOR MEDICAL IMAGING

Provides students with basic information on the causes of disease and the body's response to disease, as well as the medical imaging modalities that will demonstrate them. Prerequisite: radiologic and imaging sciences (RIS) major.

3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44084 ULTRASOUND IMAGE EVALUATION

Presentation of sonographic findings in specific disease processes, with evaluation of image quality and emphasis on diagnostic features of pathologic entities. Prerequisites: RIS 34065 and radiologic and imaging sciences (RIS) major.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RIS 44085 ULTRASOUND CLINICAL EDUCATION V

Provides clinical education and experience at a clinical site to allow students the opportunity to demonstrate proficiency in obtaining high quality sonographic images, to alter protocols based on patients and to identify image quality problems. Prerequisite: RIS 44075 and radiologic and imaging sciences (RIS) major.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic
Department: Regional College

RIS 44096 INDIVIDUAL INVESTIGATION IN MEDICAL IMAGING DIRECTED READINGS

Student selects prescribed number of medical imaging journal articles, completes questions, paper and presentation. Prerequisite: Radiologic and imaging sciences (RIS) major.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

RIS 44098 RESEARCH IN MEDICAL IMAGING

Fundamental concepts and procedures for systematic collection, analysis critique and application of qualitative and quantitative data in medical imaging. Prerequisite: Radiologic and Imaging Science (RIS) majors only and senior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Research
Department: Regional College
Course Attributes: Writing Intensive Course

Recreation, Park and Tourism Management (RPTM)

RPTM 16000 FOUNDATIONS OF RECREATION AND LEISURE

Historical examination of the park and recreation movement, sociological,

economic, psychological and political considerations for the delivery of leisure and recreation services in contemporary society. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

RPTM 26000 COMPUTER APPLICATIONS IN RECREATION AND SPORT

Focuses on the personal computer and its general function and uses in a recreation and sport environment. Students learn a wide variety of applications and programs pertinent to the recreation and sport industry. Prerequisite: RPTM 16000 or ATTR 15011.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Foundations, Leadership and Administration

RPTM 26001 INTRODUCTION TO COMMUNITY INCLUSION FOR INDIVIDUALS WITH DISABILITIES

Interdisciplinary exploration of conceptual theoretical, philosophical and legal aspects related to inclusion of individuals with disabilities in community life. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

RPTM 26010 COMMUNITY DEVELOPMENT IN RECREATION

Explores the contemporary and historical roles, organization and services of public and non-profit leisure service providers. Includes various theoretical perspectives on community organization and development as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities. Prerequisite: RPTM 16000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

RPTM 26030 RECREATION GROUP LEADERSHIP

Group leadership concepts, methods and techniques. Practical experience in planning and conducting recreational activities for a variety of populations. Pre- or co-requisite: RPTM 16000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

RPTM 26060 INTRODUCTION TO GLOBAL TOURISM

Introduction to travel and tourism around the world, including tourism technologies, cultural and natural environments as attractions, benefits of travel ethics and sustainable development. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

RPTM 26071 MAIN AND OPER OF AREAS

A systems approach for the effective maintenance and operation of areas and facilities. Prerequisite: RPTM 16000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

RPTM 26080 INTRODUCTION TO THERAPEUTIC RECREATION

Introduction to the profession of therapeutic recreation. Includes history, philosophy, settings and populations served, and an overview of therapeutic recreation process. Prerequisite: RPTM 16000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

RPTM 26081 PRINCIPLES OF OUTDOOR RECREATION

Introduction to outdoor recreation including historical and cultural perspectives, outdoor recreation resources, environmental aspects, trends and management. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

RPTM 36010 RECREATION, LEISURE AND AGING

Knowledge and understanding of leisure and aging. Planning and implementing recreation programs and activities for enriching the lives of older persons. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

RPTM 36040 INCLUSION OF PEOPLE WITH DISABILITIES IN LEISURE SERVICES

An examination of attitudes toward people with disabilities, characteristics of various



disability groups, the role and responsibility of leisure service providers to be inclusive of all individuals and techniques for adapting programs. Prerequisite: RPTM 26030.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

Course Attributes: Diversity Course-Domestic

RPTM 36060 COMMERCIAL RECREATION AND TOURISM

Principles of commercial recreation and tourism services, including entrepreneurship, economic concepts of the for-profit recreation industries and management skills. Prerequisite: RPTM 26060.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 36075 PROGRAM DESIGN AND EVALUATION

Programming leisure services within a socio-cultural context, involving understanding and assessing client behavior and needs, proficiency in program design and implementation, and knowledge of evaluation methods reflective of a service-centered and benefits approach. Prerequisite: RPTM 26030.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 36080 PRINCIPLES OF THERAPEUTIC RECREATION

Introduction to the empirical basis of therapeutic recreation practice. Includes information on assessment activity, analysis and the systematic documentation of individualized treatment plans from within the context of therapeutic recreation programs. Prerequisites: RPTM 26080 and RPTM 36040.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 36081 ADVENTURE EDUCATION

Introduction to adventure education, the history and philosophy, initiatives, ropes courses, adventure curricula and the basics of outdoor leadership and process facilitation. Prerequisites: RPTM 26030 and RPTM 26081.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 36082 INTERPRETATION OF NATURAL AND CULTURAL RESOURCES

Interpretation is the art of creating intellectual and emotional bonds between people and natural and cultural resources. Interpretation is commonly practiced in parks and other protected areas, zoos, museums and a variety of tourist attractions. This course provides students with the philosophies, concepts and practical techniques necessary to plan and present effective interpretation of natural and cultural resources. Prerequisite: RPTM 26081.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 36083 ENVIRONMENTAL EDUCATION AND CONSERVATION

Environmental education helps people better understand the natural world and to develop attitudes and behaviors conducive to environmental conservation. Teaches students the foundations, principles and techniques of environmental education thus enabling students to prepare and present effective environmental education programs. Prerequisite: RPTM 26081.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 36085 LEISURE AND CULTURE

Leisure behaviors and beliefs for people from diverse cultures, factors perpetuating inequity in the United States and strategies for leisure programming in a pluralistic society. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

Course Attributes: Diversity Course-Domestic

RPTM 36092 PRACTICUM IN THERAPEUTIC RECREATION

A 60-hours field experience in a therapeutic recreation setting. Must be approved by instructor prior to registration. Repeated registration permitted to 3 hour max.

Prerequisite: RPTM 16000 and recreation, park and tourism management (RPTM) major and special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

RPTM 36192 PRACTICUM IN LEISURE SERVICES MANAGEMENT

A 60-hour field experience in a leisure services setting. Must be approved by instructor prior to registration. Repeated registration permitted to 3 hour max.

Prerequisite: RPTM 16000 and recreation, park and tourism management (RPTM) major and special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

RPTM 36911 WILDERNESS AND REMOTE FIRST AID FOR PROFESSIONALS AND EDUCATORS

Students build first aid knowledge skills and behaviors through a variety of learning strategies to individually help in an emergency. A key focus is on how to work in limited resource environments or remote environments (i.e., foreign countries, wilderness, air travel). Then students learn and demonstrate how to prepare others, and be a leader during emergencies through practical experiences. Course is taught and assessed in a cognitively, physically, and emotionally stressed manner. This course includes three weekends and include outdoors experiences. Successful completion of the course may result in American Red Cross certification and Instructor status.

Prerequisite: none.

3.000 Credit hours

1.500 Lecture hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Foundations, Leadership and Administration

RPTM 46000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL

Investigation of travel and tourism development using an interdisciplinary social science approach. Prerequisite: RPTM 36060.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 46001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION

Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal considerations to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life. Prerequisite: RPTM 26001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture



Department: Foundations, Leadership and Administration

RPTM 46030 DYNAMICS OF LEISURE BEHAVIOR

Analysis of leisure behavior through an examination of social-psychological theories and research. Prerequisites: RPTM 36040 and 36075.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

Course Attributes: Writing Intensive Course

RPTM 46040 THERAPEUTIC RECREATION PROGRAM TECHNIQUES

Intervention/facilitation techniques employed in therapeutic recreation practice. Integration of theory into program plans used in therapeutic recreation for treatment and leisure education services for people with illnesses or disabilities. Prerequisite: RPTM 36080.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 46041 ADVANCED THERAPEUTIC RECREATION PROGRAM TECHNIQUES

Advanced intervention/facilitation techniques employed in therapeutic recreation practice. Professional issues related to therapeutic recreation practice. Prerequisite: RPTM 46040.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 46060 ADMINISTRATION OF LEISURE SERVICES

Administrative practices of private and public leisure service agencies.

Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined. Repeatable for a maximum of 9 credit hours.

Prerequisites: RPTM 36040 and 36075 and 36192.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 46070 PARK PLANNING

Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places. Prerequisites: RPTM 26081 and 36040.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 46080 LEGAL ISSUES IN SPORT AND RECREATION

Designed to alert potential recreation and sport professionals to the litigious environment prevalent in the United States and increase awareness of their legal responsibility and risk management.

Prerequisite: Senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 46091 SEMINAR FOR INTERNSHIP PREPARATION

Planning and preparation for the internship experience in leisure service settings.

Students should register for this course two semesters before enrolling in the internship course. Prerequisites: junior standing; and recreation, park and tourism management (RPTM) major; and RPTM 36092 or RPTM 36192; and special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Foundations, Leadership and Administration

RPTM 46092 INTERNSHIP IN RECREATION

Supervised full-time experience providing knowledge of overall agency operation in approved leisure setting. Fifty (50) contact hours per credit hour. Prerequisites: senior standing and RPTM 46091 and special approval.

6.000 TO 12.000 Credit hours

12.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

RPTM 46095 SELECTED TOPICS IN RECREATION

Selected topics dependent upon interest.

Repeatable for a total of 6 hours.

Prerequisite: None.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

RPTM 46096 INDIVIDUAL INVESTIGATION IN RECREATION

Independent study completed under the supervision of a faculty member. Written approval of the supervising faculty member and school director required prior to registration. Repeatable for a total of 6 hours. Prerequisite: Junior standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Foundations, Leadership and Administration

Respiratory Therapy Technology (RTT)

RTT 11000 INTRODUCTION TO RESPIRATORY THERAPY

Establishes a foundation in the field of respiratory care. Topics include: history, career options, licensing and credentialing, quality and evidence based respiratory care, principles of problem based learning, health promotion, community respiratory health, health care reimbursement, professional behavior, law and ethics, documentation, infection control, HIPAA and OSHA standards. Prerequisite: special approval. Corequisite: RTT 11003 and 11006.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RTT 11001 RESPIRATORY CARE PHARMACOLOGY

Basic principles in pharmacology, specific to respiratory care, covering the pharmacokinetic action of drugs, administration, calculations, and effects on the body systems. Prerequisites: RTT 11000 and 11003 and 11006; PTST 10009 or HED 14020; BSCI 11010 and BSCI 11020 or BSCI 20020; minimum C grade. Corequisite: RTT 11002 and RTT 11004 and RTT 11008 and BSCI 20021

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RTT 11002 CARDIOPULMONARY DISEASES

Diseases and disorders affecting the cardiopulmonary system; emphasis in diagnosis, selection, and implementation of therapeutic modalities; the role of the respiratory therapist in treatment.

Prerequisites: RTT 11000 and RTT 11003 and RTT 11006; BSCI 11010 and BSCI 11020 or BSCI 20020, PTST 10009 or HED 14020. Corequisite: RTT 11001 and RTT 11004 and RTT 11008 and BSCI 20021.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

RTT 11003 APPLICATION AND MECHANISMS OF CARDIOPULMONARY ANATOMY AND PHYSIOLOGY

Provides a solid foundation in cardiopulmonary anatomy and physiology with relevant applied physiology as it relates to the profession of respiratory care. Prerequisites: special approval.



Corequisite: RTT 11000 and RTT 11006; BSCI 20020 or BSCI 11010.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RTT 11004 THERAPEUTICS

Introduction to oxygen therapy, aerosol therapy, hyperinflation therapy, bronchopulmonary hygiene, and airway management. There is a laboratory and clinical component to this class for skill check offs and clinical competence.

Prerequisites: RTT 11000, 11003, 11006; BSCI 11010 and BSCI 11020 or BSCI 20020; CHEM 10050; PHY 12111 or PHY 13001. Corequisite: RTT 11001, 11002, 11008.

6.000 Credit hours
4.000 Lecture hours
1.000 Lab hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Combined Lecture/Lab
Department: Regional College

RTT 11006 INTRODUCTION TO CLINICAL RESPIRATORY CARE

Introduction to basic cardiopulmonary assessment and life support techniques, infection control, the medical record, and the clinical environment. Prerequisite: special approval. Corequisites: RTT 11000 and 11003 and 11006; BSCI 11010 or 20020.

3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Regional College

RTT 11008 BLOOD GAS ANALYSIS

A study of the methods and procedures for obtaining arterial blood, the principles and standards of analysis and applications of the physiological data. Prerequisites: RTT 11000, 11003, and 11006; BSCI 11010 and BSCI 11020 or BSCI 20020. Corequisite: RTT 11001, 11002 and 11004

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RTT 21000 CRITICAL CARE

Advanced course covering the underlying pathophysiology and management of respiratory failure, sepsis, shock and trauma. Provides a broad understanding of how to manage patients in the intensive care units utilizing ventilators, pharmacology, and fluid filled monitoring systems by indwelling catheters. Students perform hemodynamic and metabolic measurements, interpret and apply data, and learn advanced cardiac life support. There is a laboratory and clinical component to this course. Prerequisites:

RTT 21001 and 21003 and 21004; BSCI 20021.

5.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Laboratory, Lecture
Department: Regional College

RTT 21001 MECHANICAL VENTILATION

The principles of mechanical ventilation including: modes phase variables, triggering, compliance, resistance, indications, contraindications, physiological effects, complications, hazards, assessment, monitoring, weaning, and troubleshooting. Prerequisites: RTT 11001, RTT 11002, RTT 11004 and RTT 11008. Corequisite: RTT 21003 and RTT 21004.

5.000 Credit hours
3.000 Lecture hours
1.000 Lab hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

RTT 21003 PERINATAL AND PEDIATRIC RESPIRATORY THERAPY

Development of the fetus; assessment, treatment, and evaluation of perinatal and pediatric patients requiring respiratory therapy intervention; perinatal and pediatric cardiopulmonary diseases; management of mechanical ventilation. Prerequisites: RTT 11000, RTT 11001, RTT 11002, RTT 11003, RTT 11004, RTT 11006 and RTT 11008. Corequisites: RTT 21001 and RTT 21004.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RTT 21004 ADVANCED DIAGNOSTICS

Provides knowledge and skills necessary to work effectively in a pulmonary function laboratory. Topics include: pulmonary function tests, testing standards and techniques, equipment set up and utilization, analyzing test results and applying them in clinical situations is emphasized. Quality assurance for equipment and testing data. Preparation for the CPFT and RPFT credentialing examinations. Perquisites: RTT 21001 and respiratory therapy technology (RTT) major. Corequisites: RTT 21002 and 21003.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Regional College

RTT 21005 PULMONARY REHABILITATION AND CONTINUING CARE

Other roles for respiratory therapists out of the acute care hospital setting. Prerequisites: RTT 21004 and respiratory therapy technology (RTT) major. Corequisite: RTT 21010.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RTT 21010 RESPIRATORY THERAPY CAPSTONE COURSE

Contemporary issues and current trends in respiratory therapy; preparation for the CRT/RRT national board credentialing examinations. There is a clinical component to this course. Prerequisite: RTT 21004 and respiratory therapy technology (RTT) major. Corequisite: RTT 21005.

5.000 Credit hours
2.000 Lecture hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Clinic, Laboratory, Lecture
Department: Regional College

RTT 21012 BASIC RESEARCH DEVELOPMENT AND ANALYSIS

Survey of research problems, methods, and designs utilized in respiratory care with a focus on developing analytical and critiquing skills. Prerequisite: RTT 21000. Corequisite: RTT 21005 and 21010.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RTT 21095 SPECIAL TOPICS IN RESPIRATORY THERAPY

Scheduled topics of interest to students and faculty. Repeatable. Prerequisite: RTT 11000.

1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Regional College

RTT 21096 INDIVIDUAL INVESTIGATION IN RESPIRATORY THERAPY

Readings and/or investigation of respiratory therapy topics supervised by respiratory therapy faculty. Repeatable for a total of 6 hours. Prerequisite: respiratory therapy technology (RTT) majors.

1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Regional College

Russian (RUSS)

RUSS 12201 ELEMENTARY RUSSIAN I

An introduction to the Russian language in the context of Russian cultures. Corequisite: RUSS 12211.

4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

**RUSS 12202 ELEMENTARY RUSSIAN II**

A continuation of the introduction to the Russian language in the context of Russian cultures. Prerequisite: RUSS 12201 and 12211. Corequisite: RUSS 12212.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

RUSS 12211 ELEMENTARY RUSSIAN I RECITATION

Reinforces material presented in Elementary Russian I (RUSS 12201). Must be taken with Elementary Russian I. Corequisite: RUSS 12201.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Recitation
Department: Modern and Classical Language Studies

RUSS 12212 ELEMENTARY RUSSIAN II RECITATION

Reinforces material presented in Elementary Russian II (RUSS 12202). Must be taken together with Elementary Russian II. Prerequisite: RUSS 12201 and 12211. Corequisite: RUSS 12202.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Recitation
Department: Modern and Classical Language Studies

RUSS 22111 INTERMED RUSSIAN I RECITATION

Reinforces material presented in Intermediate Russian II (RUSS 22202) and must be taken with Intermediate Russian II. Prerequisites: RUSS 22201 and 22211. Corequisite: RUSS 22202.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Recitation
Department: Modern and Classical Language Studies

RUSS 22201 INTERMEDIATE RUSSIAN I

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: RUSS 12202. Corequisite: RUSS 22211.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

RUSS 22202 INTERMEDIATE RUSSIAN II

Continuation of RUSS 22201. Prerequisite: RUSS 22201. Corequisite: RUSS 22212.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

RUSS 22211 INTERMEDIATE RUSSIAN I RECITATION

Reinforces material presented in Intermediate Russian I (RUSS 22201). Must be taken together with Intermediate Russian I. Prerequisite: RUSS 12202 and 12212. Corequisite: RUSS 22201.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Recitation
Department: Modern and Classical Language Studies

RUSS 22212 INTERMEDIATE RUSSIAN II RECITATION

Reinforces material presented in Intermediate Russian II (RUSS 22202). Must be taken with Intermediate Russian II. Prerequisite: RUSS 22201 and 22211. Corequisite: RUSS 22202.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Recitation
Department: Modern and Classical Language Studies

RUSS 22260 RUSSIAN MORPHOLOGY AND VOCABULARY BUILDING

A systematic presentation of the extensive root, prefix and suffix system which provides the basis for rapid acquisition of Russian vocabulary. Prerequisite: RUSS 22202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

RUSS 32201 INTENSIVE RUSSIAN GRAMMAR

A systematic approach to Russian grammar and syntax. Prerequisite: RUSS 22202 .
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

RUSS 32211 COMPOSITION AND CONVERSATION

Introduction to advanced oral and written discourse strategies in Russian. Prerequisite: RUSS 22202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

RUSS 32215 RUSSIAN PHONETICS AND DICTION

Study of the Russian sound system with special emphasis on pronunciation and intonation. Application of the international phonetic alphabet to Russian. Prerequisite: RUSS 22202.
3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

RUSS 32231 TRANSLATION PRACTICE: RUSSIAN

Translation practice with Russian texts using principles and techniques learned in the lecture class. To be taken concurrently with MCLS 30230. Corequisite: MCLS 30230.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

RUSS 32240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES: RUSSIAN

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabulary in conversations in business and other settings. Prerequisite: RUSS 32211.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

RUSS 32303 MODERN WRITERS

Reading and analysis of modern Russian plays and stories. Prerequisite: RUSS 22202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Writing Intensive Course

RUSS 32325 RUSSIAN POETRY AND FOLKLORE

Reading and analysis of major poems and introduction to folklore. Prerequisite: RUSS 32303.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Writing Intensive Course

RUSS 32350 RUSSIAN PROSE

Reading and critical analysis of major prose works. Prerequisite: RUSS 32303.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies
Course Attributes: Writing Intensive Course

**RUSS 32354 RUSSIAN DRAMA**

Reading and critical analysis of major plays.
Prerequisite: RUSS 32303.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Writing Intensive Course

RUSS 32421 RUSSIAN CIVILIZATION

A survey of Russian history and intellectual life. Prerequisite: RUSS 32303.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Writing Intensive Course

RUSS 32501 RUSSIAN LITERATURE IN ENGLISH

This course is designed as a survey of major authors, movements and works of nineteenth and twentieth century Russian literature in English translation. No knowledge of Russian required.
Prerequisite: Sophomore standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

RUSS 42093 VARIABLE TITLE WORKSHOP IN RUSSIAN LANGUAGE AND LITERATURE

Workshops individually designed to provide instruction and training in specific areas of Russian studies. Prerequisite: Departmental special approval.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Modern and Classical
Language Studies

RUSS 42095 SPECIAL TOPICS IN RUSSIAN LANGUAGE AND LITERATURES

Topic to be announced in schedule of classes. Repeated registration permitted when content varies. Prerequisite: Senior standing.
1.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

RUSS 42096 INDIVIDUAL INVESTIGATION

Independent investigation of problems in Russian language or literature.
Prerequisite: 6 hours of upper-division Russian (RUSS) courses and special approval of the department chairperson.
1.000 TO 3.000 Credit hours
3.000 Other hours

Level: Undergraduate
Schedule Types: Individual Investigation
Department: Modern and Classical
Language Studies

RUSS 42211 ADVANCED COMPOSITION AND CONVERSATION

A continuation of RUSS 32211.
Prerequisite: RUSS 32211.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

RUSS 42230 ADVANCED TRANSLATION PRACTICE: RUSSIAN

Theory and practice course that discusses translation theory and emphasizes Russian-to-English translation of selected texts in business, technology, medicine and law.
Prerequisite: RUSS 32231.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies
Course Attributes: Writing Intensive Course

RUSS 42240 BUSINESS AND SPECIAL TEXTS: RUSSIAN

Survey of the typical text types of business in the Russian culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Russian. Prerequisite: RUSS 32211.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

RUSS 42351 SURVEY OF RUSSIAN AND SOVIET LITERATURE

Introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature beginning with Karamzin and ending with Boris Akunin.
Prerequisite: 6 hours of upper-division Russian (RUSS) courses.
4.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

RUSS 42399 RESEARCH PROJECT IN RUSSIAN LANGUAGE AND LITERATURE

Thesis or other independent study.
Prerequisites: 6 hours of 40000-level Russian (RUSS) courses and special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Senior Project/Honors Thesis

Department: Modern and Classical
Language Studies

RUSS 52211 ADVANCED COMPOSITION AND CONVERSATION

Advanced practice in written and oral expression in Russian. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

RUSS 52240 BUSINESS AND SPECIAL TEXTS: RUSSIAN

Survey of the typical text of business in the Russian culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Russian. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

RUSS 52351 SURVEY OF RUSSIAN AND SOVIET LITERATURE

This course introduces students to the major movements and authors of Russian, Soviet and post-Soviet literature beginning with Karamzin and ending with Boris Akunin. Prerequisite: Graduate standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

RUSS 62001 GRADUATE RESEARCH AND WRITING IN RUSSIAN

Individual instruction and assistance with problems encountered in academic research and writing in Russian. Required of all graduate students in their first fall semester of graduate work. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

RUSS 62010 THE PRACTICE OF RUSSIAN TRANSLATION

Students apply linguistic and communication science concepts to case studies of language mediation. Prerequisite: graduate standing. Corequisite: TRST 60010.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**RUSS 62091 SEMINAR**

Topic announced in schedule of classes; may be repeated when content varies.
Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Modern and Classical

Language Studies

RUSS 62098 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves repeat registration permitted. Prerequisite: Graduate standing and departmental special approval.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Modern and Classical

Language Studies

RUSS 62240 LITERARY AND CULTURAL TRANSLATION

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Russian will also be emphasized.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

RUSS 62250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisites: TRST 60010 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

RUSS 62251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION

An introduction to methods and resource for the translation of scientific, technical, industrial and medical documents.

Prerequisite: TRST 60010 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

RUSS 62979 CASE STUDY IN TRANSLATION

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the

translation process and the strategies used to solve them. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

Social and Behavioral Sciences (SBS)**SBS 50002 QUANTITATIVE METHODS IN SOCIAL AND BEHAVIORAL SCIENCES**

Introduces the basic concepts and methods of statistics as applied to diverse problems in social and behavioral research.

Demonstrates methods of exploring, organizing, and presenting data, and introduces fundamentals of probability, including probability distributions and conditional probability, with applications to 2x2 tables. Presents the foundations of statistical inference, including concepts of population, sample parameter, and estimate; and approaches to inferences using the likelihood function, confidence intervals, and hypothesis tests. Introduces and employs the statistical computing package, STATA, to manipulate data and prepare students for remaining course work in this sequence. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

SBS 50020 PUBLIC HEALTH PREVENTION

Provides an overview of the science of prevention and intervention research for graduate students in the social and behavioral sciences in public health. Examines prevention and intervention science, ethics, and principles of community based research and evaluation. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

SBS 50030 SEMINAR IN PUBLIC HEALTH PREVENTION

Explores case studies in public health prevention. Topic areas include HIV, substance abuse, domestic violence and injury prevention. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Public Health

SBS 50196 INDIVIDUAL INVESTIGATION IN SOCIAL AND BEHAVIORAL SCIENCES

Individual graduate investigation or research in areas related to social and behavioral sciences. Prerequisite: graduate standing and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Public Health

SBS 53008 GRANT WRITING IN SOCIAL AND BEHAVIORAL SCIENCES

Students learn the basics of grant writing for federal and non-federal funding agencies with a particular emphasis on the components of most proposals for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing a literature review, background and significance, research design and methodology, developing a budget and conducting research with human subjects. Participants have an opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

SBS 54634 SOCIAL DETERMINANTS OF HEALTH BEHAVIORS

Overviews the social determinants of health and the dynamic interplay between individual behaviors and community structures (systems orientation) including public policy, social and built environments, commercial messages, access to services, cultural norms, psychosocial hazards, and poverty both as causal effects that either provide opportunity or constraints to health. Also examines systems approaches to preventing public health threats from issues including substance use (alcohol, tobacco and other drugs), physical inactivity, poor dietary practices, unsafe sexual behaviors, violence and injury, and mental health.

Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Public Health

SBS 73018 THEORIES OF PREVENTION SCIENCE I

Provides a background and theoretical review of prevention science as a multi-disciplinary field focusing on systematic inquiry on health behaviors including substance use (alcohol, tobacco and other drugs), physical activity, dietary practices, mental health, violence and injury, and



sexual behaviors. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Public Health

SBS 73019 THEORIES OF PREVENTION SCIENCE II

Builds on Theories of Prevention Science I by examining methods and application of the theories and approaches to promoting health behaviors including substance use (alcohol, tobacco and other drugs), physical activity, dietary practices, mental health, violence and injury, and sexual behaviors. Prerequisites: SBS 73018 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

SBS 73020 ADVANCED METHODS IN PREVENTION SCIENCE

Focuses primarily on advanced quantitative methods in the application of prevention science. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

SBS 80100 EMERGING ISSUES IN PREVENTION SCIENCE

Survey of relevant challenges and issues facing prevention science researchers. Prerequisite: doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Public Health

SBS 80198 DIRECTED RESEARCH IN PREVENTION SCIENCE

Directed research or individual investigation for doctoral students. Prerequisite: doctoral standing.

1.000 TO 15.000 Credit hours
1.000 TO 15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Public Health

Secondary Education (SEED)

SEED 32146 INTRODUCTION TO CONTENT AREA READING

This course emphasizes the development and adaptation of reading and study strategies applicable to the content areas; techniques for incorporating reading into subject matter instruction. Includes 25 field clinical hours. Prerequisite: ADED 32142 and admission to advanced study.

2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

SEED 32147 LANGUAGE, LITERACY AND LEARNING

Issues central to teaching English: language development in adolescents, reading and composing for varied purposes, relationships between language and learning, multicultural perspectives on the curriculum. Prerequisites: ADED 32142 and admission to advanced study.

Corequisite: SEED 42292.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies
Course Attributes: Writing Intensive Course

SEED 32272 TEACHING OF SPEECH

Methods of teaching speech communication, radio, TV, film and theatre in secondary school curricula. This course includes 55 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned 'school/agency' before the first day of the semester in which student teaching/internship will take place. Prerequisite: Advanced standing and ADED 32142.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

SEED 32275 SOCIAL STUDIES EDUCATION AND THE SOCIAL SCIENCES

Beginning methods course for teaching social studies. Concentrates on instructional strategies techniques and content for teaching the social sciences at the secondary level. This course includes 51 field clinical hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/internship will take place. Prerequisite: ADED 32142 and advanced standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

SEED 40093 VARIABLE TITLE WORKSHOP IN SECONDARY EDUCATION

Various topics designed to respond to issues, trends and specialized needs of

secondary Departments. Prerequisite: Special approval.

1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Teaching, Learning and Curriculum Studies

SEED 42157 TEACHING WITH MICROCOMPUTERS:SECONDARY CLASSROOM

In-depth study of instructional use of microcomputers in all subject areas of the secondary classroom. Use of BASIC and LOGO in developing and modifying instructional software. Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

SEED 42196 INDIVIDUAL PROJECT IN SECONDARY EDUCATION

Prerequisite: Special approval.

2.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Teaching, Learning and Curriculum Studies

SEED 42272 TEACHING OF COMPUTER SCIENCE IN THE SECONDARY SCHOOL

Methodology and materials for effective teaching of secondary school computer science and computer use. Prerequisite: CS 43001 and 33101 and ADED 32142 and admission to advanced study.

4.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

SEED 42275 TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS

Advanced methods course for teaching social studies. Focuses on planning and preparation for the student teaching experience. This course includes 51 field clinical hours. Prerequisite: SEED 32275 and admission to advanced study.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Teaching, Learning and Curriculum Studies

SEED 42292 FIELD WORK PRACTICUM

Designed to meet the individual needs of education students who require additional field clinical experiences prior to student teaching. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which



student teaching/ internship will take place.
Prerequisite: Special approval; junior or senior standing.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 42295 SPECIAL TOPICS IN SECONDARY EDUCATION

Prerequisite: Special approval.

2.000 TO 4.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 43315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS

Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

Prerequisite: Advanced standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 43325 MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM

Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area. Prerequisite: Advanced standing.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Teaching, Learning and Curriculum Studies

SEED 43335 TEACHING LANGUAGE AND COMPOSITION

Explores linguistic and rhetorical perspectives on the teaching of composition in secondary Departments. Prerequisite:

Advanced standing; and ADED 32142 and

MCED 40007 and SEED 43315 and SEED

43325. Corequisite: ADED 42292.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 47248 TEACHING CRITICAL THINKING

Techniques, procedures and materials for developing skills in application of analysis and thinking process. Prerequisite: ADED 32142 and senior standing and admission to advanced study.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 50093 VARIABLE TITLE WORKSHOP IN SECONDARY EDUCATION

Various topics designed to respond to issues, trends and specialized needs of elementary or secondary Departments.

Prerequisite: Graduate standing and special approval.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Teaching, Learning and Curriculum Studies

SEED 52157 TEACHING WITH MICROCOMPUTERS:SECONDARY CLASSROOM

In-depth study of instructional use of microcomputers in all subject areas of the secondary classroom. Use of BASIC and LOGO in developing and modifying instructional software. Students will develop and field test computing materials for their classroom. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 52260 METHODS OF TEACHING FOREIGN LANGUAGES

Introduction to modern techniques and methods of foreign language instruction at the elementary and secondary level.

Prerequisite: Foreign language proficiency level for teaching in public Departments.

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 52277 TEACHING SCIENCE IN THE SECONDARY SCHOOL

Analysis of teaching materials, demonstrations and participation in science classes appropriate for graduate students seeking certification to teach science in the secondary Department. Prerequisite:

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 53315 TEACHING LITERATURE IN THE SECONDARY SCHOOLS

Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 53325 MULTI-MODAL LITERACIES IN THE SECONDARY CLASSROOM

Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Teaching, Learning and Curriculum Studies

SEED 53335 TEACHING LANGUAGE AND COMPOSITION

Explores linguistic and rhetorical perspectives on the teaching of composition in secondary Departments. Prerequisite:

Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 57248 TEACHING CRITICAL THINKING

Techniques, procedures and materials for developing skills in application of analysis and thinking processes. Prerequisite:

Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 60199 THESIS I

Thesis students must register each semester until all degree requirements are met. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Teaching, Learning and Curriculum Studies

SEED 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: SEED 60199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Teaching, Learning and Curriculum Studies

SEED 62145 PRINCIPLES OF SECONDARY TEACHING

Principles of teaching in the secondary Departments with emphasis on purposes, curriculum roles of the teacher instruction



and the adolescent learner in secondary, middle, junior and senior high Departments. Prerequisite: Graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies

SEED 62146 INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT

Enables students to demonstrate proficiency in the selection and application of general strategies for instruction, of appropriate instructional media and materials and in the accommodation of individual needs and cultural diversity within the secondary instructional setting. Pre- or corequisite: SEED 62145 and graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies

SEED 62191 SEMINAR IN SECONDARY EDUCATION

Study and experience of various theoretical and methodological and practical approaches to special problems. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours 1.000 TO 3.000 Other hours Level: Graduate Schedule Types: Seminar Department: Teaching, Learning and Curriculum Studies

SEED 62192 ADVANCED PRACTICUM AND INTERNSHIP IN SECONDARY EDUCATION

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisites: graduate standing and special approval. 1.000 TO 10.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies

SEED 62195 SPECIAL TOPICS IN SECONDARY EDUCATION

Graduate standing and special approval. 1.000 TO 5.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies

SEED 62196 INDIVIDUAL INVESTIGATION IN SECONDARY EDUCATION

Independent reading and/or research directed by graduate faculty member. Prerequisite: Graduate standing and special approval. 1.000 TO 5.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Individual Investigation Department: Teaching, Learning and Curriculum Studies

SEED 62198 RESEARCH IN SECONDARY EDUCATION

Students pursue an individualized research project under direction of instructor. Prerequisite: Graduate standing and special approval. 2.000 TO 15.000 Credit hours 15.000 Other hours Level: Graduate Schedule Types: Research Department: Teaching, Learning and Curriculum Studies

SEED 67147 TEACHING ADOLESCENTS IN THE SECONDARY SCHOOL CULTURE

Providing for motivation, discipline and instruction of adolescents within the culture of the secondary Department. Prerequisite: graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies

SEED 67148 RESEARCH AND THE CLASSROOM TEACHER

An examination of the teacher as both a researcher and as a consumer of research. Prerequisite: graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies

SEED 67231 TRENDS IN SECONDARY EDUCATION

Current trends, issues and problems in secondary Departments. Emphasizes individual student's careful examination of a problem in American secondary Departments. Prerequisite: Graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies

SEED 67232 SECONDARY SCHOOL SOCIAL STUDIES

General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching developing

student's critical thinking skills role of the computer use of primary sources teaching controversial issues and stimulating active citizenship. Prerequisite: Graduate standing and special approval. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies

SEED 67234 SCIENCE IN SECONDARY EDUCATION

Analyzes methods, materials course content and evaluation in secondary school science teaching. Includes lectures discussions field trips demonstrations and laboratory practicum. Prerequisite: Teaching certification in one of the sciences. Graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies

SEED 70093 VARIABLE TITLE WORKSHOP IN SECONDARY EDUCATION

Various topics designed to respond to issues, trends and specialized needs of elementary or secondary Departments. Prerequisite: Doctoral standing and special approval. 1.000 TO 4.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Workshop Department: Teaching, Learning and Curriculum Studies

SEED 72191 SEMINAR IN SECONDARY EDUCATION

Study and experience of various theoretical and methodological and practical approaches to special problems. Prerequisite: Doctoral standing. 1.000 TO 3.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Seminar Department: Teaching, Learning and Curriculum Studies

SEED 77231 TRENDS IN SECONDARY EDUCATION

Current trends, issues and problems in secondary Departments. Emphasizes individual student's careful examination of a problem in American secondary Departments. Prerequisite: Doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Teaching, Learning and Curriculum Studies



SEED 77232 SECONDARY SCHOOL SOCIAL STUDIES

General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching developing student's critical thinking skills role of the computer use of primary sources teaching controversial issues and stimulating active citizenship. Prerequisite: Doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 77234 SCIENCE IN SECONDARY EDUCATION

Analyzes methods, materials course content and evaluation in secondary school science teaching. Includes lectures discussions field trips demonstrations and laboratory practicum. Prerequisite: Teaching certification in one of the sciences. Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 82192 ADVANCED PRACTICUM AND INTERNSHIP IN SECONDARY EDUCATION

Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing and special approval.

1.000 TO 10.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 82195 SPECIAL TOPICS IN SECONDARY EDUCATION

Prerequisite: Doctoral standing and special approval.

2.000 TO 4.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Teaching, Learning and Curriculum Studies

SEED 82196 INDIVIDUAL INVESTIGATION IN SECONDARY EDUCATION

Independent reading and/or research directed by graduate faculty member. Prerequisite: Special approval and doctoral standing.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Teaching, Learning and Curriculum Studies

SEED 82198 RESEARCH IN SECONDARY EDUCATION

Students pursue an individualized research project under direction of instructor.

Prerequisite: Doctoral standing and special approval.

2.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Teaching, Learning and Curriculum Studies

Sociology (SOC)

SOC 12050 INTRODUCTION TO SOCIOLOGY

Scientific approach to understanding social interaction, institutions and organization.

Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Diversity Course-Domestic, Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

SOC 22100 SOCIOLOGICAL ANALYSIS

Fundamental study of sociological analysis designed to provide awareness of theoretical and methodological concepts necessary in developing sociological perspective. Prerequisite: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 22570 UNDERSTANDING DIFFERENCES AND INEQUALITY

An introduction to the cultural and structural factors creating and sustaining educational, economic and political inequality by race, ethnicity, gender, class and sexual orientation with an emphasis on issues of poverty and immigration. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: TAG Social/Behavior Sciences

SOC 22778 SOCIAL PROBLEMS

Contemporary American and global social problems and issues are analyzed from sociological perspectives. Several cases are used to illustrate the emergence, development and decline of problems in social context. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Diversity Course-Global, Kent Core-Social Sciences, TAG Social/Behavior Sciences, Transfer Module-Social Sciences

SOC 24011 INTERPERSONAL RELATIONSHIPS AND FAMILIES

Exploration of the sociological nature of families across the lifespan, focusing on structure, diversity and life course processes such as dating, mate selection, cohabitation, marriage, parenthood, divorce, remarriage, singlehood, widowhood, parent-child interactions, sexual orientation, inequality and difference. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: TAG Social/Behavior Sciences

SOC 31092 PRACTICUM IN SOCIOLOGY

Individual research experience in sociology. Prerequisite: SOC 32210 and junior standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Sociology

SOC 32096 INDIVIDUAL INVESTIGATION IN SOCIOLOGY

Readings and/or research supervised by member of sociology faculty. Prerequisite: SOC 12050, junior standing and special approval of instructor.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Sociology

SOC 32210 RESEARCHING SOCIETY

Survey of methods and techniques of research; research design and data gathering instruments; qualitative and quantitative analysis. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 32220 DATA ANALYSIS

The use of quantitative methods in the analysis of data from social research. Emphasis on descriptive statistics.

Prerequisite: SOC 12050. Corequisite: SOC 32221.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

**SOC 32221 DATA ANALYSIS
LABORATORY**

Analysis of sociological data utilizing statistical and electronic data processing tools. Corequisite: SOC 32220.

1.000 Credit hours

3.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Sociology

SOC 32400 INDIVIDUAL AND SOCIETY

Foundations of social psychology; process of socialization; development of social and personal identities; small group and collective behavior; theories of deviance. Prerequisite: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 32510 SOCIOLOGY OF WORK

Consideration of world of work across time and cultures with special emphasis on American society. Impact of work on individuals and other social institutions. Prerequisite: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 32560 SOCIOLOGY OF FAMILIES

Social history of the American family. Examination of how race, ethnicity, sexual orientation, class, gender and age contribute to variation in the experience and structure of family life in the U.S. Prerequisite: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Diversity Course-Domestic

**SOC 32565 SOCIOLOGY OF
GAYS/LESBIANS**

Examination of sexual identities, societal attitudes and debates, and differences of gender, race, age and class in gay/lesbian communities, using both social movements and life span perspectives. Prerequisite: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Diversity Course-Domestic

SOC 32569 MINORITIES IN AMERICA

Study of such major American minorities as blacks, American Indians, Spanish-speaking Americans and American Jews. Prerequisite: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 32570 INEQUALITY IN SOCIETIES

Sociological analysis of stratification and inequality in societies, and the social structures that produce and maintain them. Particular emphasis on the intersections of race, class and gender in American society. Prerequisites: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Diversity Course-Domestic

**SOC 32610 BIRTH, DEATH, AND
MIGRATION**

Determinants and consequences of population change, with emphasis on mortality, fertility and migration. Prerequisite: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 32673 URBAN SOCIOLOGY

Examination of the history and development of urban areas, urban sociological theories and selected topics such as poverty, immigration, race relations and urban planning. Prerequisite: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 32762 DEVIANT BEHAVIOR

Overview of classical and contemporary theories and perspectives on the nature, causes and societal management of deviant behavior. Application of theories and perspectives to modern and historical social problems, methods of punishment and policy trends in social control. Prerequisites: SOC 12050.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 42010 DEATH AND DYING

Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death, death as taboo, medicalization and rationalization of death and dying and disenfranchised grief. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 42092 INTERNSHIP IN SOCIOLOGY

Application of sociological knowledge in the work setting. Assist professionals in sites including social services hospitals industry and government. Prerequisite: Junior standing; and sociology (SOC) major and 2.50 grade point average and special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Sociology

**SOC 42093 VARIABLE TITLE
WORKSHOP IN SOCIOLOGY**

Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups. S u/graded. Prerequisite: Permission.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Sociology

**SOC 42095 SPECIAL TOPICS IN
SOCIOLOGY**

Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled. Repeatable for a total of 12 hours for majors.

Prerequisites: SOC 12050 and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

SOC 42126 SOCIOLOGICAL THEORIES

An examination of classical, modern and postmodern approaches to social theory. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Sociology

Course Attributes: Writing Intensive Course

**SOC 42224 INTERPRETING SOCIAL
DATA**

Emphasis on organizing, analyzing and interpreting actual sociological research data making use of basic descriptive and inferential statistics and computer programs. Prerequisite: SOC 32210 or SOC 32220; and special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Sociology

**SOC 42315 SOCIOLOGY OF CHANGING
GENDER ROLES**

An examination of the institutions, institutional linkages and social processes that contribute to change and stability of traditional gender roles and the consequences of changes. Prerequisite: SOC 12050 and junior standing.



3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Diversity Course-Domestic

SOC 42359 SOCIAL MOVEMENTS

Investigation of various movements for social change. Examines the origins, developmental characteristics and the purposes of classic and contemporary movements. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42400 SELF AND IDENTITY

Examines theories and research on the origin and behavioral consequences of identities, self-concept and self-esteem; also examines the relationships between identities and emotions and between self-concept and mental health. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42421 CHILDHOOD IN SOCIETY

How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the U.S. An exploration of the distinct role of socializing agents-parents and siblings, Department, peers and media. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42478 ADOLESCENCE IN SOCIETY

Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class, and race differences in adolescence the significance of youth movements with an emphasis on music as a dominant expression of youth culture. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42558 WEALTH, POVERTY AND POWER

Sociological examination of economic stratification; focuses on the translation of class into power via politics, education and collective struggle. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42561 SOCIOLOGY OF RELIGION

Social context of religious ideologies and structures with special reference to religion in America. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42562 SOCIOLOGY OF MENTAL ILLNESS

A sociology of mental health and illness; focuses on how social factors influence and are influenced by mental health status; topics include definition and measurement, social distribution, social control of mental illness, societal reaction and media coverage. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42563 SOCIOLOGY OF HEALTH AND HEALTH CARE

Sociological analysis of health and illness behavior, utilization of health care professions and the organizational community and societal systems which deal with health and illness. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42564 BUREAUCRATIC ORGANIZATIONS

Analysis of structure and functioning of complex organizations in their cultural context. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42568 RACE AND ETHNIC STUDIES

Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Diversity Course-Domestic

SOC 42575 FAMILY PATTERNS:A WORLD PERSPECTIVE

Cultural variability with respect to courtship, family relationships, child rearing and other patterns in primitive and literate societies. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Diversity Course-Global

SOC 42577 SOCIOLOGY OF FAMILY VIOLENCE

Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, spouse abuse, elderly abuse, marital rape, sexual abuse of children. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42870 INTERDISCIPLINARY SEMINAR IN SOCIAL GERONTOLOGY

Examines the particular role of the practitioner unique to gerontology using case study, cross-cultural comparisons and research analysis. Recommended for students with a major or minor in gerontology. Prerequisite: Junior standing and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 42879 AGING IN SOCIETY

Analysis of demographic, sociological and socio-psychological dimensions of aging. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Diversity Course-Domestic

SOC 43200 SOCIAL STRUCTURE AND INDIVIDUAL LIVES

Examines conceptualizations for and evidence concerning the effects of social structure on various dimensions of individual lives. Prerequisite: SOC 12050 and junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Sociology

SOC 52010 DEATH AND DYING

Theoretical perspectives and research in human death and dying. Emphasis on applied concerns in medical and helping professions. Topics include social death,



death as taboo, medicalization and rationalization of death and dying, and disenfranchised grief. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52126 SOCIOLOGICAL THEORIES

An examination of classical, modern and post-modern approaches to social theory. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52315 SOCIOLOGY OF CHANGING GENDER ROLES

An examination of the institutions, institutional linkages and social processes that contribute to change and stability of traditional gender roles and the consequences of changes. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52359 SOCIAL MOVEMENTS

Investigation of various movements for social change. Examines the origins developmental characteristics and the purposes of classic and contemporary movements. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52421 CHILDHOOD IN SOCIETY

How socio-historical circumstances shape the perception and experience of childhood as a distinct life stage. The process of childhood socialization in Western societies particularly the U.S. An exploration of the distinct role of socializing agents- parents and siblings, Department, peers and media. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52478 ADOLESCENCE IN SOCIETY

Consideration of the social, cultural and historical forces that shape the experience of this period of the life cycle. Includes examination of gender, class and race differences in adolescence, the significance of youth movements with an emphasis on music as a dominant expression of youth culture. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52558 WEALTH, POVERTY AND POWER

Sociological examination of economic stratification in the United States; focuses on the translation of class into power via politics, education and collective struggle. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52561 SOCIOLOGY OF RELIGION

Social context of religions and their ideologies and structures with special reference to religion in America. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52563 SOCIOLOGY OF HEALTH AND HEALTH CARE

Sociological analysis of health and illness behavior, utilization of health care, professions, and the organizational, community, and societal systems that deal with health and illness. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52564 BUREAUCRATIC ORGANIZATIONS

Analysis of structure and functioning of complex organizations in their cultural context. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52568 RACE AND ETHNIC STUDIES

Sociological principles underlying racial and ethnic relations in the United States; emphasis on social factors of prejudice, discrimination and assimilation affecting all groups. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52577 SOCIOLOGY OF FAMILY VIOLENCE

Sociological analysis of theories, research and social policy concerning family violence, child abuse and neglect, spouse abuse, elderly abuse, marital rape, sexual abuse of children. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52870 INTERDISCIPLINARY SEMINAR IN SOCIAL GERONTOLOGY

Examines the particular role of the practitioner unique to gerontology using case study, cross- cultural comparisons and research analysis. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 52879 AGING IN SOCIETY

Analysis of demographic, sociological and socio psychological dimensions of aging. Prerequisite: Graduate standing in sociology.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY

Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628. Prerequisite: Graduate standing in sociology .

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY

Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups. Prerequisite: Graduate standing.

1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Sociology

SOC 62100 EARLY SOCIOLOGICAL THEORY

An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.

Prerequisite: SOC 4/52126 and graduate standing in sociology.
3.000 Credit hours



3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Sociology

SOC 62105 CONTEMPORARY SOCIOLOGICAL THOUGHT

Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723. Prerequisite: SOC 62100 or SOC 72100; and graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 62199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing in sociology and special approval.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Sociology

SOC 62211 QUANTITATIVE METHODS IN SOCIOLOGY

Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603. Prerequisite: Graduate standing in sociology.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62216 ADVANCED TECHNIQUES IN RESEARCH

Seminar on innovations in research methods. Akron 3850: 708. Prerequisite: Graduate standing in sociology.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY

Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706. Prerequisite: SOC 32220 and graduate standing in sociology.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Sociology

SOC 62218 ADVANCED DATA ANALYSIS

Critical examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709. Prerequisite: SOC 672217 and graduate standing in sociology.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62219 QUALITATIVE METHODS IN SOCIOLOGY

Study of qualitative methods including interviewing, observation, use of personal documents, archival data and special problems of recording and analyzing qualitative data. Akron 3850:714. Prerequisite: Graduate standing in sociology.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62220 SURVEY RESEARCH METHODS

An in-depth study of the design and administration of social surveys. Akron 3850:711. Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Sociology

SOC 62299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: SOC 62199; and graduate standing in sociology; and special approval.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Sociology

SOC 62323 SOCIOLOGY OF HEALTH CARE

A general study of the field of medical sociology with special emphasis on analysis of health and health care in the contemporary urban United States. Akron 3850:656. Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62324 EPIDEMIOLOGIC METHODS IN HEALTH RESEARCH

An introduction to the methods, theories and topics of social epidemiology

examining how macro and micro social environmental variables have an impact on disease and its distribution in society. Akron 3850: 615. Prerequisite: SOC 62211 and SOC 62217 and graduate standing and special approval.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Sociology

SOC 62326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL DISORDERS

Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850: 728. Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62328 STRATIFICATION AND HEALTH

Race, social class and gender differences in physical and mental health status, help seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726. Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62430 SOCIAL PSYCHOLOGY

Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850: 631. Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62433 PERSONALITY AND SOCIAL SYSTEMS

Examination of contemporary theory and research on linkages between personality and society. Emphasis will be on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634. Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62434 SOCIOLOGY OF COMMUNICATION

This course provides a general survey of the micro aspects of social communication.



The concentration is on the sociolinguistic orientation to analysis of human communication. Akron 3850: 635.
Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62435 SOCIOLOGY OF SENTIMENTS AND EMOTIONS

A sociological perspective is employed to analyze and understand the production, distribution and utilization of socially created sentiments and emotions.
Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62542 SOCIOLOGY OF WORK

Examination of work as behavioral phenomenon in human societies; contrasts with non-work and leisure significance of occupations, professions and work types in organization of work. Akron 3850:649.
Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62543 FAMILY ANALYSIS

Analysis of actual and theoretical patterns of family systems; current research in family in relation to theories of family and theories of social systems. Akron 3850:677.
Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62546 SOCIAL STRATIFICATION TO SOCIAL INEQUALITIES

An overview of social inequalities - definitions, causes, identities, structures and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.
Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62566 SOCIOLOGY OF GENDER

Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639. Prerequisite: Graduate

standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 62760 DEVIANCE

Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self-labeling, case studies, social consequences and problems. Akron 3850: 663. Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62870 SOCIOLOGY OF RACE AND ETHNICITY

An in-depth study of the theories, models, research approaches and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651. Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62877 SOCIAL GERONTOLOGY

Impact of aging upon individuals and society. Reactions of individuals and society to aging. Akron 3850:678.
Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology

SOC 62885 INTERNSHIP IN APPLIED SOCIOLOGY

Student negotiated project in specific human service setting for practitioner; program designing, research in service training, writing a grant proposal.
Prerequisite: Graduate standing in sociology and special approval.
3.000 TO 8.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Sociology

SOC 62894 COLLEGE TEACHING OF SOCIOLOGY

Preparation for college teaching. Maximum of 3 hours applicable toward master's degree requirements (with departmental approval). Hours do not count toward the doctoral degree. Akron 3850:700.
Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Other hours
Level: Graduate

Schedule Types: Combined Lecture/Lab
Department: Sociology

SOC 62895 SPECIAL TOPICS

Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled. Prerequisite: Graduate standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 62896 INDIVIDUAL INVESTIGATION

Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Only 3 credits count toward the Master's degree. Prerequisites: graduate standing and sociology (SOC) major and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Sociology

SOC 62898 RESEARCH

Pursuit of research interests which can include the student's project and/or a faculty member's project. Only 2 credits count toward the Master's degree. Prerequisites: graduate standing and sociology (SOC) major and special approval.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Sociology

SOC 72002 PROFESSIONAL AND ETHICAL ISSUES IN SOCIOLOGY

Introduction to professional and ethical issues in the field of sociology including the logic of inquiry, developing effective approaches to independent learning and research, the human subjects review process and plagiarism. Akron 3850:628.
Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72093 VARIABLE TITLE WORKSHOP IN SOCIOLOGY

Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups.
Prerequisite: Doctoral standing.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Sociology



SOC 72100 EARLY SOCIOLOGICAL THEORY

An examination of the contributions by pre-1930 social thinkers to contemporary sociological theory. Akron 3850:722.
Prerequisite: SOC 4/52126 and doctoral standing in sociology.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72105 CONTEMPORARY SOCIOLOGICAL THOUGHT

Covers major contemporary theories and theorists. Emphasis on functionalism, conflict, exchange, interactionism and systems theory. Neofunctionalism, neo-Marxism, structuration theory and other recent trends are treated. Akron 3850:723.
Prerequisites: SOC 62100 or SOC 72100; and doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72211 QUANTITATIVE METHODS IN SOCIOLOGY

Introduction to the use of quantitative research methods for analyzing sociological issues. Includes instruction on each step in the process of empirically verifying a theoretical question, from conceptualization to analysis. Akron 3850:603. Prerequisite: doctoral standing in sociology.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72216 ADVANCED TECHNIQUES IN RESEARCH

Seminar on innovations in research techniques. Akron 3850:708. Prerequisite: Doctoral standing in sociology.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72217 MULTIVARIATE TECHNIQUES IN SOCIOLOGY

Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non-experimental causal models and path analysis. Akron 3850:706. Prerequisites: SOC 32220 and doctoral standing in sociology.
4.000 Credit hours
4.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72218 ADVANCED DATA ANALYSIS

Crucial examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multi-variate inferential statistics. Akron 3850:709.
Prerequisites: SOC 62217 or 72217; and doctoral standing in sociology.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72219 QUALITATIVE METHODS IN SOCIOLOGY

Study of qualitative methods including interviewing, observation, use of personal documents, archival data, and special problems of recording and analyzing qualitative data. Akron 3850:714.
Prerequisite: Doctoral standing in sociology.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72220 SURVEY RESEARCH METHODS

An in-depth study of the design and administration of social surveys. Akron 3850:711. Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72323 SOCIOLOGY OF HEALTH CARE

A general study of the field of medical sociology with special emphasis on analysis of health and health care in the contemporary urban United States. Akron 3850:656. Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72324 EPIDEMIOLOGIC METHODS IN HEALTH RESEARCH

An introduction to the methods, theories and topics of social epidemiology examining how macro and micro social

environmental variables have an impact on disease and its distribution in society. Akron 3850: 615. Prerequisite: SOC 62211 and SOC 62217 and doctoral standing and special approval.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72326 SOCIOLOGY OF MENTAL HEALTH AND MENTAL DISORDERS

Sociological examination of the social processes that affect mental health, frame cultural ideas of normality and illness, and define clinical pathology. Akron 3850:728.
Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72328 STRATIFICATION AND HEALTH

Race, social, class and gender differences in physical and mental health status, help seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.
Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72430 SOCIAL PSYCHOLOGY

Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Akron 3850:631. Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72433 PERSONALITY AND SOCIAL SYSTEMS

Examination of contemporary theory and research on linkages between personality and society. Emphasis will be on the dynamics of those linkages and their effects on both individuals and social structures. Akron 3850:634. Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology



Course Attributes: Joint Program/ Consortia Agreement

SOC 72434 SOCIOLOGY OF COMMUNICATION

This course provides a general survey of the micro aspects of social communication. The concentration is on the sociolinguistic orientation to analysis of human communication. Akron 3850: 635.
Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72435 SOCIOLOGY OF SENTIMENTS AND EMOTIONS

A sociological perspective is employed to analyze and understand the production, distribution and utilization of socially created sentiments and emotions.
Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72542 SOCIOLOGY OF WORK

Examination of work as behavioral phenomenon in human societies; contrasts with non-work and leisure; significance of occupations, professions and work types in organization of work. Akron 3850:649.
Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72543 FAMILY ANALYSIS

Analysis of actual and theoretical patterns of family systems; current research in family in relation to theories of family and theories of social systems. Akron 3850:677.
Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72546 SOCIAL STRATIFICATION TO SOCIAL INEQUALITIES

An overview of social inequalities - definitions, causes, identities, structures, and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Akron 3850:646.
Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72566 SOCIOLOGY OF GENDER

Examination of theories and research on gender origins, characteristics and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Akron 3850:639. Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72760 DEVIANCE

Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self labeling, case studies, social consequences and problems. Akron 3850:663. Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72870 SOCIOLOGY OF RACE AND ETHNICITY

An in-depth study of the theories, models, research approaches, and substantive areas that constitute the sociology of race and ethnicity. Akron 3850:651. Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72877 SOCIAL GERONTOLOGY

Impact of aging upon individuals and society. Reactions of individuals and society to aging. Akron 3850:678.
Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72885 INTERNSHIP IN APPLIED SOCIOLOGY

Student negotiated project in specific human service setting for practitioner; program designing; research; in-service training; writing a grant proposal.
Prerequisite: Doctoral standing in sociology and special approval.
3.000 TO 8.000 Credit hours

3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72894 COLLEGE TEACHING OF SOCIOLOGY

Preparation for college teaching. Hours do not count toward the doctoral degree. Akron 3850:700. Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72895 SPECIAL TOPICS

Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled. Prerequisite: Doctoral standing in sociology.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72896 INDIVIDUAL INVESTIGATION

Intensive pursuit of a subject matter beyond normal course coverage with the possibility of associated research. Only 3 credits count toward the doctoral degree. Prerequisites: doctoral standing and sociology (SOC) major and special approval.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 72898 RESEARCH

Pursuit of research interests which can include the student's project and/or a faculty member's project. Only 4 credits count toward the doctoral degree. Prerequisites: doctoral standing and sociology (SOC) major and special approval.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 82199 DISSERTATION I

Doctoral dissertation, for which registration in at least two semesters is required first of which will be semester in which dissertation is begun and continuing until 30 hours are completed. Akron 3850: 899. Prerequisite: Special approval and doctoral standing.
15.000 Credit hours
3.000 Other hours
Level: Graduate



Schedule Types: Dissertation
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

SOC 82299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: Special approval and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Sociology
Course Attributes: Joint Program/ Consortia Agreement

Speech Pathology and Audiology (SPA)

SPA 10001 AUDITORY COMPREHENSION:SKILLS AND STRATEGIES

Introduction to models and listening and their applicability to college lecture situations. Misconceptions, barriers, self-evaluation concepts, memory techniques, and note taking strategies are included. Prerequisite: None.
2.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 10002 INTRODUCTION TO COMMUNICATION DISORDERS AND DIFFERENCES

An introduction to communication disorders and differences using a) case studies via film and video review and critique, b) lecture, and c) class discussions. Covers speech, language, swallowing and hearing disorders and cultural and linguistic differences in communication. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 20202 VOICE, ARTICULATION AND PHONETICS

Personal improvement course for the development of voice, articulation and pronunciation through study of structures of speech mechanism with intensive drills and practice. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 33101 HEARING SCIENCE

Acoustics, psychoacoustics, bioacoustics, anatomy and physiology of the ear. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 34102 APPLIED PHONETICS

Basic principles of speech production and phonetic transcriptions of English with the international phonetic alphabet; emphasis on general American dialect. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 34103 ANATOMY AND PHYSIOLOGY OF SPEECH

Functional anatomy and physiology of the respiratory, phonatory, articulatory and neural systems as they are used in speech production by talkers with normal and abnormal speech. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 34104 SPEECH AND LANGUAGE DEVELOPMENT

Normal development and linguistic analysis of language systems including phonology, morphology syntax semantics and pragmatics. Prerequisites: SPA 34102 or ENG 31001; and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 34105 PHONEMIC BASES OF SPEECH AND LANGUAGE

Fundamental processes related to production and perception of spoken language, with parallels to writing and reading particular application to normal and hearing impaired children and adolescents. For non-majors only. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 34106 ARTICULATORY AND PHONOLOGICAL DISORDERS

Assessment and remediation of disorders of articulation and phonology. Prerequisites: SPA 34102 and SPA 34104.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 34107 LANGUAGE DISORDERS IN CHILDREN AND ADOLESCENTS

Introduction to assessment and intervention procedures associated with language disorders in children and adolescents. Prerequisite: SPA 34104.
3.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 40104 COMMUNICATION DISORDERS IN CHILDREN AND ADOLESCENCE

Orientation to etiologies and remediation of communication disorders found in pediatric and adolescent populations. Prerequisite: Not open to majors in speech pathology and audiology.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 43300 SPEECH OF THE HEARING IMPAIRED

Basic principles, variables and techniques for understanding evaluating and improving expressive communication of hearing impaired individuals. Prerequisite: SPA 33101 and SPA 34102 (speech pathology majors) or SPA 34105 and SPA 43600 (education majors).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 43402 AUDIOMETRY

Measurement of human hearing by pure-tone and speech audiometry; evaluation of middle ear function by immittance audiometry; screening techniques; pathologies of the conductive and sensorineural systems. Prerequisites: SPA 33101 with minimum C (2.0) grade and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 43404 AURAL REHABILITATION

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing impaired individuals. Prerequisite: SPA 33101 and 34102 and 43402 (Speech Pathology and Audiology majors) or 43600 (Education of Hearing Impaired majors).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Health Sciences

SPA 43492 CLINICAL PREPARATION IN AUDIOLOGY

Lab exercises and practical experiences in audiometric procedures, test interpretation, counseling and management of the hearing impaired. Prerequisite: Special approval. Corequisite: SPA 43402.
2.000 Credit hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory



Department: Health Sciences

SPA 43506 SPECIAL ISSUES IN AUDIOLOGY

Readings and discussion of classic and current research on the evaluation of hearing disorders. Prerequisite: SPA 43402.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

SPA 43600 FUNDAMENTALS OF EDUCATIONAL AUDIOLOGY

Auditory development and function/dysfunction; auditory assessment and family counseling; selection and fitting of personal and classroom amplification; care and maintenance of amplification systems; collaboration of professionals in audiology and education; communication approaches according to varying levels of hearing loss; classroom environments conducive to auditory and academic learning. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

SPA 44096 INDEPENDENT STUDY:SPEECH PATHOLOGY AND AUDIOLOGY

Readings and/or research on problems approved by chairman of department in consultation with student's adviser and project director. Prerequisite: Senior standing and speech pathology and audiology (SPA) major and special approval.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Health Sciences

SPA 44110 SPEECH SCIENCE

Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders. Prerequisite: SPA 34102 and SPA 34106.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

SPA 44111 NEURAL PROCESSES

Anatomy and physiology of the nervous system underlying human neuromotor movements. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves theories of brain function and neural maturation and learning. Prerequisite: SPA 34103 or special approval of the instructor.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

SPA 44112 AGE-RELATED CHANGES IN COMMUNICATION

Non-pathological age-related changes in speech, language and voice. Topics include structural changes in orofacial, laryngeal and respiratory mechanism; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

SPA 44130 COMMUNICATION DISORDERS OF THE AGING

Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process. Prerequisite: Senior standing.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

SPA 44310 CLINICAL PROCEDURES

Examination of evaluative and therapeutic procedures used with communicatively-impaired children and adults. Prerequisite: SPA 34103 or 34106.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

SPA 44492 CLINICAL PREPARATION IN SPEECH-LANGUAGE PATHOLOGY

Fundamental evaluation and management procedures of individuals with communication disorders, including supervised observation. Corequisite: SPA 44310.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Health Sciences

Course Attributes: Writing Intensive Course

SPA 50104 SPEECH AND LANGUAGE REHABILITATION

Orientation to types of speech, hearing and language disorders found in Departments and how classroom teachers should handle them. Closed to Speech Pathology and Audiology majors. Prerequisite: Graduate standing.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 53300 SPEECH OF THE HEARING-IMPAIRED

Basic principles, variables and techniques for understanding evaluating and improving expressive communication of hearing impaired individuals. Prerequisite:

Education of hearing impaired majors: SPA 34105 and SPA 43600. Speech pathology and audiology majors: SPA 33101 and SPA 34102. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 53402 AUDIOMETRY

Measurement of human hearing by pure-tone and speech audiometry; evaluation of middle ear function by immittance audiometry; screening techniques; pathologies of the conductive and sensorineural systems. Prerequisite: SPA 33101 with a grade of C (2.0) or better. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 53404 AURAL REHABILITATION

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing impaired individuals. Prerequisite:

Education of Hearing Impaired majors: SPA 43600; Speech Pathology and Audiology majors: SPA 33101 and SPA 34102 and SPA 43402. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 53506 SPECIAL ISSUES IN AUDIOLOGY

Readings and discussion of classic and current research on the evaluation of hearing disorders. Prerequisite: SPA 4/53402. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 54096 INDEPENDENT STUDY:SPEECH PATHOLOGY AND AUDIOLOGY

Readings and/or research on problems approved by chair of department in consultation with student's adviser and project director. Prerequisite: Special approval and graduate standing.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Health Sciences

**SPA 54110 SPEECH SCIENCE**

Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders. Prerequisite: SPA 34102 and 34106. Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 54111 NEURAL PROCESSES IN SPEECH AND LANGUAGE

Anatomy and physiology of the nervous system underlying speech and language. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function and neural maturation and learning. Prerequisite: SPA 34103 or special approval of the instructor. Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 54112 AGE-RELATED CHANGES IN COMMUNICATION

Non-pathological age-related changes in speech, language and voice. Topics include: structural changes in orofacial, laryngeal and respiratory mechanisms; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 54130 COMMUNICATION DISORDERS OF THE AGING

Hearing, speech and language disorders in geriatric population. Symptoms, causes and treatment: normal changes in hearing, language and speech accompanying aging process. Prerequisite: Graduate standing.

2.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 54310 CLINICAL PROCEDURES

An examination of evaluative and therapeutic procedures used with communicatively impaired children and adults. Prerequisite: SPA 34103 or SPA 34106 and graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 63104 ADVANCED AUDIOMETRY

Behavioral and physiological assessment of auditory and vestibular site-of-lesion. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 63105 AMPLIFICATION

Historical through contemporary views of the selection and fitting of amplification for the hearing impaired. Consideration of legal, political and financial issues when choosing to dispense. Prerequisite: SPA 4/53402 and SPA 4/53404. Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 63107 ANATOMY AND PHYSIOLOGY OF THE HEARING MECHANISM

Anatomy and physiology of the peripheral and central hearing mechanism, including the embryological development of the ear; some emphasis on conductive and sensorineural pathologies. Prerequisite: SPA 33101 and SPA 4/53402. Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 63202 AUDITORY ELECTROPHYSIOLOGY

Foundations, instrumentation, protocols and interpretation of electrophysiological testing in audiology. Tests include brainstem response audiometry, otoacoustic emissions, electronystagmography and intraoperative monitoring. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 63205 ADVANCED AMPLIFICATION

Strategies for the selection, fitting and verification of advanced hearing aid technology. Prerequisite: SPA 6/73105.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 63301 PEDIATRIC AUDIOLOGY

Audiological testing techniques in children including auditory development, philosophy in the selection of a test battery, and pathological conditions affecting the pediatric population. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 63502 ADVANCED AURAL REHABILITATION

Generic and specific models for implementing aural rehabilitation programs with children and adults. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 63504 PSYCHOACOUSTICS

Basic principles, theories, methods and findings relating physical and psychological dimensions of sound. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 63691 SEMINAR IN AUDIOLOGY

Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation. Repeatable up to a maximum of 12 semester hours. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 64091 SEMINAR IN COMMUNICATION DISORDERS

Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of research projects are required. Repeatable to 9 credits. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 64093 WORKSHOP IN COMMUNICATION DISORDERS

Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Workshop
Department: Health Sciences

SPA 64096 INDIVIDUAL INVESTIGATION: SPEECH PATHOLOGY AND AUDIOLOGY

Independent study of topics to be selected in consultation with graduate faculty. May be repeated for maximum of 12 credit



hours. Prerequisite: Graduate standing and special approval.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Health Sciences

SPA 64098 RESEARCH

Research or individual investigation for master's level graduate students. Repeated registration permitted. Prerequisite:

Graduate standing and special approval.

1.000 TO 15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Health Sciences

SPA 64191 SEMINAR:NEUROGENIC COMMUNICATION DISORDERS

Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia.

Repeatable up to 9 hours. Prerequisite:

SPA 64301. Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Health Sciences

SPA 64199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing and special approval.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Health Sciences

SPA 64291 SEMINAR:CHILD LANGUAGE

Topics are selected for class investigation from the areas of child language development or disorders. Repeatable up to 9 hours. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Health Sciences

SPA 64299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: SPA 64199 and graduate standing and special approval.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Health Sciences

SPA 64301 APHASIA AND APRAXIA

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to

aphasia and apraxia of speech in adults.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD

Methods of language assessment and intervention for infants, toddlers and PreDepartmenters who are either at risk or diagnosed as presenting language delays or disabilities. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64303 DISORDERS OF ARTICULATION AND PHONOLOGY

Diagnosis and remediation of children's articulation and phonological disorders.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64304 COGNITIVE-COMMUNICATIVE DISORDERS

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to cognitive-communicative disorders in adults subsequent to right brain damage, head trauma and dementia. Prerequisite:

Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64305 FLUENCY DISORDERS

Nature, theories and their derived therapeutic approaches to the treatment of fluency disorders. Prerequisite: speech language pathology (SLP) major and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64306 VOICE DISORDERS

Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques. Prerequisite:

Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64307 DYSARTHRIA

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to dysarthria in adults. Prerequisite: Graduate standing.

1.000 Credit hours

1.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS

Theoretical background knowledge and practical assessment and intervention techniques for Department-age children who demonstrate language disorders.

Prerequisite: SPA 34107. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS

Provides an examination of the medical, developmental, social, cognitive, and communicative aspects of disorders on the Autism Spectrum. Assessment and intervention models are explored as they relate to various theoretical models for understanding the presentation of ASD.

Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

SPA Department: Health Sciences

64310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS

Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with ASD. Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD. Prerequisite: graduate study.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64350 AUGMENTATIVE COMMUNICATION AND LANGUAGE PROGRAMMING

Methods of communication and language programming through augmentative and/or alternative modes with a primary focus on interdisciplinary teams and interdisciplinary decision-making and programming. Prerequisite: SPA 6/774302 or SPA 6/74308. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Health Sciences

SPA 64351 CLINICAL MANAGEMENT IN SPEECH PATHOLOGY AND AUDIOLOGY

Consideration of problems involved in administration of speech and hearing programs as these vary from hospitals, clinics, Departments and universities. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64352 THE SUPERVISORY PROCESS IN SPEECH PATHOLOGY/AUDIOLOGY

Seeks to emphasize development of process skills related to clinical supervision in speech and hearing. Prerequisite: CI 67100 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64353 COMMUNICATION PROGRAMMING FOR CHILDREN WITH MULTIPLE DISABILITIES

Nature and clinical management of the communication disorders of children having a variety of disabling conditions.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64354 MAXILLOFACIAL ANOMALIES

Nature and rehabilitative procedures for individuals with congenital and acquired maxillofacial anomalies and resonance disorders. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64355 ENVIRONMENTAL LANGUAGE PROGRAMMING

Consideration of environmental and cultural influences on language behavior and relevance of these factors in programming for language-impaired children.

Prerequisite: SPA 4/54108 and SPA 6/74302. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64356 DYSPHAGIA

Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults and children. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64391 SEMINAR: ARTICULATION AND PHONOLOGY

Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders. Repeatable up to 9 hours.

Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Health Sciences

SPA 64491 SEMINAR: ORGANIC SPEECH DISORDERS

A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Health Sciences

SPA 64492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY

Supervised clinical practice with patients who have speech, hearing or language problems. Prerequisite: Special approval and graduate standing.

1.000 TO 12.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Health Sciences

SPA 64500 LANGUAGE SCIENCE

Detailed discussion of current theoretical issues in first language acquisition from the prelinguistic period to the development of complex linguistic and communicative abilities. Prerequisites: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64504 EXPERIMENTAL PHONETICS

Consideration of experimental bases of normal speech production and perception; survey of literature with implications for speech and hearing disorders. Prerequisite: SPA 4/54110. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64506 INSTRUMENTATION

Basic principles of electricity and electronics and their clinical and research applications to speech and hearing. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64525 PUBLIC SCHOOL TECHNIQUES IN COMMUNICATION DISORDERS: INQUIRY INTO PROFESSIONAL PRACTICE

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organizational procedures, therapy techniques, collaboration, ethics and research. Prerequisite: Special approval. Corequisite: SPA 64528.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Health Sciences

SPA 64528 STUDENT TEACHING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech language pathologist or audiologist as disciplined investigator. Combination of themes including organization, procedures, therapy techniques, collaboration, ethics and research. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Special approval. Corequisite: SPA 64525.

4.000 TO 8.000 Credit hours

8.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Health Sciences

SPA 64591 SEMINAR: FLUENCY DISORDERS

Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults. Repeatable up to 9 hours. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Health Sciences

SPA 64600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology and audiology. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate



Schedule Types: Lecture
Department: Health Sciences

SPA 64691 SEMINAR:VOICE DISORDERS

Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment. Repeatable up to 9 hours. Prerequisite: SPA 6/74306. Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 64791 SEMINAR:SPEECH SCIENCE

Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception. Repeatable up to 9 hours. Prerequisites: SPA 4/54110 and SPA 6/74504. Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 64891 SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY

Nature, etiologies and correlates of speech/language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication, language, learning and literacy. Prerequisite: SPA 64500 and SPA 64302; and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 64991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE

Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework. Prerequisite: Instructor special approval and speech pathology and audiology (SPA) major only and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 70691 SEMINAR IN AUDIOLOGY

Selected current topics in audiology with emphasis on review of current literature. Prerequisite: Admission to the AU.D. program or special approval of the instructor and doctoral standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Seminar

Department: Health Sciences

SPA 70692 INTERNSHIP IN AUDIOLOGY

Supervised practicum in audiology requiring the independent performance of basic audiologic procedures, including hearing aid management. Prerequisite: SPA 70744 and special approval and doctoral standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 70701 BASIC AND APPLIED PHYSICAL ACOUSTICS FOR AUDIOLOGY

Study of physical acoustics, basic electricity and electronics, as well as principles, methodology, calibration and maintenance of audiologic equipment. Prerequisite: Admission to the AU.D. program or special approval of instructor and doctoral standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70702 ANATOMY AND PHYSIOLOGY OF PERIPHERAL AUDITORY AND VESTIBULAR SYSTEMS

A study of the anatomy, biophysics and physiology of the auditory and vestibular systems. Prerequisite: Admission to the Au.D program or special approval of instructor and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70703 ACOUSTIC PHONETICS

Study of the acoustics, measurement and nomenclature of speech sounds and theoretical and acoustic bases of speech perception (includes 1 hour lab). Prerequisite: Admission to the AU.D. program and doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

SPA 70704 CRITICAL ANALYSIS OF RESEARCH IN AUDIOLOGY

General introduction to the research process with an emphasis on acquiring a reading knowledge of research and an ability to evaluate research. Prerequisite: Admission to the AU.D. program and doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70705 AUDITORY DISORDERS

Study of conditions/diseases that can affect the auditory system. Prerequisite:

Admission to the AU.D. program and doctoral standing.

2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70706 ANATOMY AND PHYSIOLOGY UNDERLYING NEURO-OTOLOGY

An in-depth study of the anatomy and physiology of the central auditory and vestibular nervous system (includes 1 hour lab.) Prerequisite: SPA 70702 and doctoral standing.
4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

SPA 70707 PSYCHOACOUSTICS

Study of the principles, procedures and research of psychoacoustics; the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience with normal and impaired hearing. Prerequisite: Admission to the AU.D. program and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70708 CRITICAL ANALYSIS OF RESEARCH

Development of a reading knowledge of research and the ability to evaluate the quality of research studies. Prerequisite: SPA 70704 and doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70709 AUDIOLOGIC ASSESSMENT

Theoretical basis for tests underlying basic audiologic assessments. Prerequisite: Admission to the Au.D. program and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70710 INDUSTRY AND COMMUNITY NOISE

Theoretical principles of noise measurement; etiology of noise-induced hearing loss and acoustic trauma; industrial hearing conservation programs; occupational safety and health act; community and recreational noise evaluation and management. Prerequisite: Admission to the AU.D. program and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate



Schedule Types: Lecture
Department: Health Sciences

SPA 70711 SPEECH-LANGUAGE PATHOLOGY FOR THE AUDIOLOGIST

Examination of normal and abnormal aspects of speech and language including their impact on auditory function and testing. Prerequisite: Admission to the AU.D. program and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70712 DIAGNOSIS OF AUDITORY DISORDERS

Underlying theory and principles of administration and interpretation of site-of-lesion tests. Prerequisite: SPA 70709 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70713 HEARING AID TECHNOLOGY

Study of amplification systems for the hearing impaired. Prerequisite: SPA 70701 and doctoral standing.
4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70714 GERONTOLOGICAL ISSUES IN AUDIOLOGY

Physiological, psychological and sociological theories of aging with a focus on the etiology, symptomatology, assessment and rehabilitation of older adults with hearing impairments. Prerequisite: Admission to the AU.D. program and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70715 CENTRAL AUDITORY PROCESSING: EVALUATION AND MANAGEMENT

Study of audiologic evaluation and habilitation/rehabilitation procedures for people having central auditory disabilities. Prerequisite: SPA 70705 and SPA 70706 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70716 ADULT HEARING-AID FITTING AND SELECTION

Examination of the theory and practice of fitting hearing aids. Emphasis on special clinical procedures research needs and evolving technology in hearing instruments.

Includes a one hour lab. Prerequisite: SPA 70713 and doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Health Sciences

SPA 70717 PEDIATRIC AUDIOLOGY

Study of audiologic diagnostic and auditory habilitative protocols for the birth to 3 population. Both assessment and management strategies will be emphasized. Prerequisite: SPA 70709 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70718 COCHLEAR IMPLANTS

Study of cochlear implants in children and adults including equipment, candidacy, mapping and overview of (re)habilitation. Prerequisite: Admission to the AU.D. program and doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70719 COUNSELING IN AUDIOLOGY

Focus on interviewing, counseling and interacting with individuals with hearing impairments their families and significant others. Prerequisite: Admission to the AU.D. program and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70720 PEDIATRIC AMPLIFICATIONS

The focus of study is on amplification systems and fitting techniques for the pediatric population. Prerequisite: SPA 70713 and SPA 70716 and SPA 70717 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70721 EVALUATION AND MANAGEMENT OF BALANCE DISORDERS

Study of the balance mechanism; differential diagnostic assessment of balance disorders including electronystagmography, posturography and rotational testing; rehabilitation of the balance disordered patient (1 hour lab included.) Prerequisite: Admission to the AU.D. program or special approval of instructor and doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate

Schedule Types: Combined Lecture/Lab
Department: Health Sciences

SPA 70722 AUDIOLOGIC MANAGEMENT OF THE SCHOOL-AGE CHILD

Focus on educational audiology. Features delivery of audiologic services designed to access the school environment for children ages 4-21. Prerequisite: SPA 70717 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70723 AUDIOLOGIC TREATMENT OF ADULTS

Study of current methodologies employed in the audiologic rehabilitation of adults with hearing impairments. Implementation of remedial strategies is emphasized. Prerequisite: SPA 70716 or special approval of instructor and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70724 HISTORY OF AUDIOLOGY

An examination of the history of deafness/hearing impairment and the profession of audiology. Prerequisite: Admission to the AU.D. program and doctoral standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70725 MEDICAL MANAGEMENT OF AUDITORY DISORDERS

A study of the multidisciplinary approach to medical/surgical management of patients with auditory and vestibular disorders. Prerequisite: SPA 70712 and doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70726 ELECTROPHYSIOLOGICAL TECHNIQUES IN AUDIOLOGY

Study of evoked responses used in diagnostic audiology, including ABR, MLR, ECHOCHG, ENOG, ALR, P300, VER, and SSER. Prerequisite: SPA 70706 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70727 CULTURAL ISSUES IN DEAFNESS

An introduction to deaf culture and the audiologist's roles and responsibilities in planning treatment with a member of the



deaf community. Prerequisite: Admission to the AU.D. program and doctoral standing.

2.000 Credit hours
2.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70730 PRACTICE MANAGEMENT IN AUDIOLOGY

Study of issues which impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record keeping and professional liability. Prerequisite: Admission to the AU.D. program and doctoral standing.

4.000 Credit hours
4.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70741 DIRECTED OBSERVATION IN AUDIOLOGY I

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required. Prerequisite: Admission to the AU.D. program or special approval of the instructor and doctoral standing.

1.000 Credit hours
1.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 70742 DIRECTED OBSERVATION IN AUDIOLOGY II

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required. Prerequisite: Admission to the AU.D. program and doctoral standing and special approval.

1.000 Credit hours
1.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 70743 CLERKSHIP I

Clinical practicum in audiology during which students perform discrete tasks under supervision. Corequisite: SPA 70709 and special approval of instructor and doctoral standing.

1.000 Credit hours
1.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 70744 CLERKSHIP II

Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision. Prerequisite: SPA 70743 and special approval and doctoral standing.

1.000 Credit hours
1.000 Other hours

Level: Graduate

Schedule Types: Practicum
Department: Health Sciences

SPA 70747 GRADUATE AUDIOLOGIST I

Supervised clinical practicum in audiology which encompasses audiologic assessments and audiologic habilitation. Prerequisite: SPA 70792 and doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 70748 GRADUATE AUDIOLOGIST II

Supervised clinical practicum in audiology requiring the independent performance of audiologic assessment procedures, audiologic rehabilitation and vestibular assessment and rehabilitation. Prerequisite: SPA 70747 and doctoral standing and special approval.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 70749 GRADUATE AUDIOLOGIST III

Full-time clinical practicum in audiology at an off-campus site. SPA 70748 and passing score of 600 or higher on the PRAXIS examination and doctoral standing and special approval. Corequisite: SPA 70791.

8.000 Credit hours
8.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 70750 GRADUATE AUDIOLOGIST IV

Full-time clinical practicum in audiology at an off-campus site. Students taking the course must have successfully completed the Praxis Examination. Prerequisite: SPA 70749 and doctoral standing. Corequisite: SPA 70791.

8.000 Credit hours
8.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 70751 GRADUATE AUDIOLOGIST V

Full-time clinical practicum in audiology at an off-campus site. Prerequisite: SPA 70750 and doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 70791 CLINICAL SEMINAR IN AUDIOLOGY

In-depth consideration of topics/issues in the practice of audiology with emphasis upon issues related to clinical rotation. Course is repeatable. Corequisite: SPA 70750 or SPA 70751 or special approval of instructor and doctoral standing.

1.000 Credit hours

1.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 70792 INTERNSHIP IN AUDIOLOGY

Supervised clinical practicum in audiology requiring the independent performance of diagnostic, hearing aids and audiologic rehabilitation procedures. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/internship will take place. Prerequisite: SPA 70692 and doctoral standing.

2.000 Credit hours
2.000 Other hours

Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 70798 RESEARCH PROJECT IN AUDIOLOGY

Completion of a doctoral research project including data collection, analysis write-up and oral presentation. Prerequisite: Admission to the AU.D. program and doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Research
Department: Health Sciences

SPA 73104 ADVANCED AUDIOMETRY

Behavioral and physiological assessment of auditory and vestibular site-of-lesion. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 73105 AMPLIFICATION

Historical through contemporary views of the selection and fitting of amplification for the hearing impaired. Consideration of legal, political and financial issues when choosing to dispense. Prerequisite: SPA 4/53402 and SPA 4/53404 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 73107 ANATOMY AND PHYSIOLOGY OF THE HEARING MECHANISM

Anatomy and physiology of the peripheral and central hearing mechanism, including the embryological development of the ear; some emphasis on conductive and sensorineural pathologies. Prerequisite: SPA 33101 and SPA 4/53402 and doctoral standing.

3.000 Credit hours



3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 73202 AUDITORY ELECTROPHYSIOLOGY

Foundations, instrumentation, protocols and interpretation of electrophysiological testing in audiology. Tests include brainstem response audiometry, otoacoustic emissions, electronystagmography and intraoperative monitoring. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 73205 ADVANCED AMPLIFICATION

Strategies for the selection, fitting and verification of advanced hearing aid technology. Prerequisite: SPA 6/73105.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 73301 PEDIATRIC AUDIOLOGY

Audiological testing techniques in children including auditory development, philosophy in the selection of a test battery and pathological conditions affecting the pediatric population. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 73502 ADVANCED AURAL REHABILITATION

Generic and specific models for implementing aural rehabilitation programs with children and adults. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 73504 PSYCHOACOUSTICS

Basic principles, theories, methods and findings relating physical and psychological dimensions of sound. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 73691 SEMINAR IN AUDIOLOGY

Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation. Repeatable up to a maximum of 12 semester hours. Prerequisite:

Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 74093 WORKSHOP IN COMMUNICATION DISORDERS

Variable topic workshop offered when need arises, either on or off campus to update training in a particular area of speech pathology. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Health Sciences

SPA 74191 SEMINAR: NEUROGENIC COMMUNICATION DISORDERS

Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia. Repeatable up to 9 hours. Prerequisite: SPA 64301 and doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 74291 SEMINAR: CHILD LANGUAGE

Topics are selected for class investigation from the areas of child language, development or disorders. Repeatable up to 9 hours. Prerequisite: Special approval and doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 74301 APHASIA AND APRAXIA

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia and apraxia of speech in adults. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74302 LANGUAGE ASSESSMENT AND INTERVENTION IN EARLY CHILDHOOD

Methods of language assessment and intervention for infants, toddlers and PreDepartmenters who are either at risk or diagnosed as presenting language delays or disabilities. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74303 DISORDERS OF ARTICULATION AND PHONOLOGY

Diagnosis and remediation of children's articulation and phonological disorders. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74304 COGNITIVE-COMMUNICATIVE DISORDERS

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to cognitive-communicative disorders in adults subsequent to right-brain damage, head trauma and dementia. Prerequisite: Doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74305 FLUENCY DISORDERS

Nature, theories and their derived approaches to the assessment and treatment of fluency disorders. Prerequisite: speech language pathology (SLP) major and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74306 VOICE DISORDERS

Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques. Prerequisite: Doctoral standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74307 DYSPHARTHRIA

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to dysarthria in adults. Prerequisite: Doctoral standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74308 LANGUAGE ASSESSMENT AND INTERVENTION WITH SCHOOL-AGE POPULATIONS

Theoretical background knowledge and practical assessment and intervention techniques for Department-age children who demonstrate language disorders. Prerequisite: SPA 34107 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate



Schedule Types: Lecture
Department: Health Sciences

SPA 74309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS

Provides an examination of the medical, developmental, social, cognitive, and communicative aspects of disorders on the Autism Spectrum. Assessment and intervention models are explored as they relate to various theoretical models for understanding the presentation of ASD. Prerequisite: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS

Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with ASD. Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD. Prerequisite: doctoral study.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74350 AUGMENTATIVE COMMUNICATION AND LANGUAGE PROGRAMMING

Methods of communication and language programming through augmentative and/or alternative modes with a primary focus on interdisciplinary teams and interdisciplinary decision making and programming. Prerequisite: SPA 6/774302 or SPA 6/74308 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74351 CLINICAL MANAGEMENT IN SPEECH PATHOLOGY AND AUDIOLOGY

Consideration of problems involved in administration of speech and hearing programs as these vary from hospitals, clinics, Departments and universities. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74352 THE SUPERVISORY PROCESS IN SPEECH PATHOLOGY/AUDIOLOGY

Seeks to emphasize development of process skills related to clinical supervision in speech and hearing. Prerequisites: CI 67100 and doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74353 COMMUNICATION PROGRAMMING FOR CHILDREN WITH MULTIPLE DISABILITIES

Nature and clinical management of the communication disorders of children having a variety of disabling conditions. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74354 MAXILLOFACIAL ANOMALIES

Nature and rehabilitative procedures for individuals with congenital and acquired maxillofacial anomalies and resonance disorders. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74355 ENVIRONMENTAL LANGUAGE PROGRAMMING

Consideration of environmental and cultural influences on language behavior and relevance of these factors in programming for language-impaired children. Prerequisite: SPA 4/54108 and SPA 6/74302 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74356 DYSPHAGIA

Anatomy, etiologies symptomatologies evaluation procedures and treatment techniques relating to swallowing disorders in adults and children. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74391 SEMINAR: ARTICULATION AND PHONOLOGY

Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders. Repeatable up to 9 hours. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 74491 SEMINAR: ORGANIC SPEECH DISORDERS

A revolving topics seminar on theoretical and/or clinical issues related to

neurogenic/organic speech and/or language disorders. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 74492 CLINICAL PRACTICE IN SPEECH PATHOLOGY AND AUDIOLOGY

Supervised clinical practice with patients who have speech, hearing or language problems. Prerequisite: Special approval and doctoral standing.
1.000 TO 12.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Health Sciences

SPA 74500 LANGUAGE SCIENCE

Detailed discussion of current theoretical issues in first language acquisition from the prelinguistic period to the development of complex linguistic and communicative abilities. Prerequisites: doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74504 EXPERIMENTAL PHONETICS

Consideration of experimental bases of normal speech production and perception; survey of literature with implications for speech and hearing disorders. Prerequisite: SPA 4/54110 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74506 INSTRUMENTATION

Basic principles of electricity and electronics and their clinical and research applications to speech and hearing. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74591 SEMINAR: FLUENCY DISORDERS

Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults. Repeatable up to 9 hours. Prerequisite: Doctoral standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 74600 RESEARCH METHODS IN SPEECH-LANGUAGE PATHOLOGY

Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech language pathology



and audiology. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours

Level: Graduate
Schedule Types: Lecture
Department: Health Sciences

SPA 74691 SEMINAR:VOICE DISORDERS

Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment. Repeatable up to 9 hours. Prerequisite: SPA 6/74306 and doctoral standing.

1.000 TO 3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 74791 SEMINAR:SPEECH SCIENCE

Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception. Repeatable up to 9 hours. Prerequisites: SPA 4/54110 or SPA 6/74504 and doctoral standing.

1.000 TO 3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 74891 SEMINAR: COMMUNICATION MODALITIES AND ASSISTIVE TECHNOLOGY

Nature, etiologies and correlates of speech language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication language, learning and literacy. Prerequisite: speech language pathology (SLP) major and doctoral standing.

3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 74991 SEMINAR:CRITICAL TOPICS IN SPEECH LANGUAGE PATHOLOGY

Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework. Prerequisite: Instructor special approval and speech pathology and audiology (SPA) major and doctoral standing.

1.000 TO 3.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 84091 SEMINAR IN COMMUNICATION DISORDERS

Special topics seminar for advanced students in speech-language pathology and audiology. Presentations and discussion of

research projects are required. Repeatable to 9 credits. Prerequisite: Doctoral standing.

2.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Seminar
Department: Health Sciences

SPA 84096 INDIVIDUAL INVESTIGATION-SPEECH PATHOLOGY AND AUDIOLOGY

Independent study of topics to be selected in consultation with graduate faculty. May be repeated for maximum of 12 credit hours. Prerequisite: Doctoral standing.

1.000 TO 6.000 Credit hours
6.000 Other hours

Level: Graduate
Schedule Types: Individual Investigation
Department: Health Sciences

SPA 84098 RESEARCH

Research opportunities for doctoral students who have not yet passed their candidacy examination. Repeated registration permitted. Prerequisite: Doctoral standing and special approval.

1.000 TO 15.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Research
Department: Health Sciences

SPA 84199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite: Doctoral standing and special approval.

15.000 Credit hours
3.000 Other hours

Level: Graduate
Schedule Types: Dissertation
Department: Health Sciences

SPA 84299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: SPA 84199 and doctoral standing and special approval.

15.000 Credit hours
15.000 Other hours

Level: Graduate
Schedule Types: Dissertation
Department: Health Sciences

Sport Administration (SPAD)

SPAD 15000 INTRODUCTION TO SPORT ADMINISTRATION

This course is designed to introduce students to the field of sport administration. Students will be made aware of the career options available to them in the sport management profession. All course materials, assignments and class discussions will emphasize both the understanding and application of key concepts across various aspects of the

sport industry. Students will also be introduced to the sport administration major curriculum and requirements. Recommend first course in the SPAD program sequences. Prerequisite: None.

2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SPAD 15015 ORIENTATION TO PROFESSIONAL GOLF MANAGEMENT

An overview of opportunities and responsibilities in the golf profession. Emphasis on concepts, techniques and practices of teaching golf skills; understanding the PGA Constitution, rules of golf, tournament golf operations and golf car fleet management. Prerequisite: Special approval.

1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SPAD 25015 INTRODUCTION TO GOLF PROFESSIONAL TRAINING PROGRAM

An overview of the Professional Golfers Association of America's golf professional training program (GTP). An in-depth review of the GTP standards emphasizing PGA level-one checkpoint requirements is provided and includes portfolio development and self-studies. Prerequisite: SPAD 15015.

2.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Foundations, Leadership and Administration

SPAD 25059 SPORT IN SOCIETY

Analysis of how sport relates to the social relations and cultural values of U.S. society. Framed by a critical evaluative perspective, examining how social class, ethnicity, race and gender relations contour sport practices. Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SPAD 25092 PRACTICUM I IN SPORT ADMINISTRATION

A 105-hour field experience in a sport management setting. Prerequisite: Sport administration (SPAD) major and special approval from instructor.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Foundations, Leadership and Administration

**SPAD 25192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT I**

A cumulative 105-hour on-campus seminar and field experience in a professional golf management setting. Repeated registration permitted to a 3 hour maximum.

Prerequisite: SPAD 15015 and SPAD 25015 and special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

SPAD 35015 GOLF MANAGEMENT I

An in-depth study of the golf swing and teaching methodology. The sciences applied to the golf swing, laws, principles and preferences of a model swing; professional technology for golf teachers; and the importance of directed practice, drills and teaching aids. Prerequisite: SPAD 15015 and SPAD 25015 and SPAD 25192.

2.000 Credit hours

1.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Foundations, Leadership and Administration

SPAD 35021 GOVERNANCE IN SPORT

Issues of governance in amateur and professional sports. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SPAD 35025 FACILITY MANAGEMENT

Overview of planning, staffing, marketing and managing sport facilities and complexes. The primary emphasis in this course is on management, personnel and operations issues. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SPAD 35092 PRACTICUM II IN SPORT ADMINISTRATION

A 105-hour field experience in a sport management setting. Prerequisite: SPAD 25092 and sport administration (SPAD) major and special approval from instructor.

1.000 OR 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

SPAD 35192 PRACTICUM IN PROFESSIONAL GOLF MANAGEMENT II

A cumulative 105-hour field and on-campus seminar class experience in a professional golf management setting. Repeated

registration permitted to a 3 hour maximum.

Prerequisite: SPAD 15015 and SPAD

25015 and SPAD 25192 and special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

SPAD 45015 GOLF MANAGEMENT II

An in-depth study of the business of golf.

Topics include maintaining a high performance work environment and motivating techniques for staff, delegating assignments, managing performance problems, merchandise assortment plans, vendor relations, inventory management and merchandise display and promotion.

Prerequisite: SPAD 15015 and SPAD

25015 and SPAD 35015.

2.000 Credit hours

1.000 Lecture hours

1.000 Lab hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Foundations, Leadership and Administration

SPAD 45022 EVENT PLANNING AND PRODUCTION

Students learn the proper planning process that all sports events undergo. Students then apply these concepts in actual events that they develop and hold. Prerequisites: junior or senior standing and MKTG 25010.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Foundations, Leadership and Administration

SPAD 45023 SPORT MARKETING

The course, which is designed around market planning, examines how to formulate market ideas, incorporate market research, select segmentation, targeting and positioning strategies, implement sales and promotion strategies and assess control procedures within the sport and entertainment industry. Prerequisite: MKTG 25010.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SPAD 45024 SPORT IN GLOBAL PERSPECTIVE

Students critically analyze how sport relates to general features of globalization and the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics).

The underlying assumption is that sport is part of a growing network of global interdependencies that bind human beings together. Prerequisite: Senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SPAD 45026 SPORT AND THE MEDIA

An introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability, an examination of the structure of sports journalism and production; and a general analysis of the role of mediated sport in our culture. As such, the roles of institutions, producers, texts and audiences and their relationships to each other are examined.

Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SPAD 45027 PUBLIC RELATIONS AND PROMOTION IN SPORT

Issues in public relations and promotion of sport such as advertising, crisis management, sales promotion and atmospherics. Prerequisite: MKTG 25010.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SPAD 45030 SPORT ENTERPRISE

This is a capstone course for sport administration majors. The course which is designed around business planning for sport, examines how to formulate business ideas, select a legal form of organization, locate financing sources, assess the market, develop a human resource management system and establish budget control. Prerequisite: Senior standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

Course Attributes: Writing Intensive Course

SPAD 45091 SEMINAR FOR INTERNSHIP PREPARATION

This course prepares the students for the internship experience in sport administration. Students successfully complete this course prior to registering for internship. Prerequisite: Senior standing and special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Foundations, Leadership and Administration



SPAD 45092 INTERNSHIP IN SPORT ADMINISTRATION

Supervised full-time experience providing knowledge of overall agency operation in approved sport management setting. 50 contact hours per credit hour. Prerequisite: SPAD 45091 and senior standing and special approval.

6.000 TO 12.000 Credit hours

12.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

SPAD 45096 INDIVIDUAL INVESTIGATION IN SPORT ADMINISTRATION

Individual investigation in sport administration. Faculty approval is required. Repeatable for a maximum of 12 credit hours. Prerequisites: sport administration (SPAD) major and special approval.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Foundations, Leadership and Administration

SPAD 45192 INTERNSHIP IN PROFESSIONAL GOLF MANAGEMENT

Supervised full-time experience providing knowledge of overall agency operation in approved sport administration, professional golf management setting. 100 contact hours per credit hour with seminar interactive requirements. Repeatable. Prerequisite: SPAD 15015 and SPAD 25015 and SPAD 25192 and special approval.

2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Foundations, Leadership and Administration

SPAD 46080 SPORT AND THE LAW

A discussion of legal issues as they apply to the sport industry. Prerequisite: junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SPAD 46095 SPECIAL TOPICS IN SPORT ADMINISTRATION

Special topics in sport administration. Repeatable. Prerequisite: none.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SPAN 18201 ELEMENTARY SPANISH I

An introduction to the Spanish language in the context of Hispanic cultures.

Prerequisite: None.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 18202 ELEMENTARY SPANISH II

A continuation of the introduction to the Spanish language in the context of Hispanic cultures. Prerequisite: SPAN 18201.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 18301 SPANISH FOR HEALTH CARE I

Introduction to the Spanish language in the context of health care situations, tasks and terminology and Hispanic cultures.

Prerequisite: none.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 18302 SPANISH FOR HEALTH CARE II

A continuation of the introduction to the Spanish language in the context of health care situations, tasks and terminology and Hispanic cultures. Prerequisite: SPAN 18301.

4.000 Credit hours

4.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 28201 INTERMEDIATE SPANISH I

A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures. Prerequisite: SPAN 18202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 28202 INTERMEDIATE SPANISH II

A continuation of the development of listening, speaking, reading and writing skills using a variety of material on the Spanish language in the context of Hispanic cultures and specific areas of study like culture, business, justice, etc. Credit may be given for SPAN 28202 or SPAN 28206 but not for both. Prerequisite: SPAN 28201.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 28206 SPANISH READING FOR COMPREHENSION

Further develops skills and techniques for understanding written Spanish; conducted in English. Credit not applicable toward Spanish major or minor. Students may obtain credit in SPAN 28202 or SPAN 28206 but not both. Prerequisite: SPAN 28201.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 28207 BUSINESS SPANISH I

Terminology, organization and modes of communication prevalent in modern business world of Spain and Latin America. Presentation of materials followed by practical exercises organized in situational units. Prerequisite: SPAN 28202 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 28208 BUSINESS SPANISH II

Terminology, organizations and modes of communication prevalent in modern Spanish business world. Presentation of materials is followed by practical exercises organized in situational units. Prerequisite: SPAN 28207.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 28209 FIELD STUDY

For residence and/or field research in a Spanish-speaking community. Prior to registering for this course students must obtain departmental approval. Repeatable for a total of 6 hours. Prerequisite: Special approval.

1.000 TO 6.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

SPAN 28212 STUDIES IN GRAMMAR

This course provides a comprehensive grammar review for students who need to improve their skills prior to taking advanced language courses. Prerequisite: SPAN 28202.

4.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Spanish (SPAN)



Department: Modern and Classical
Language Studies

SPAN 38211 SPANISH GRAMMAR AND COMPOSITION

This course provides an intensive grammar study and further written practice to help advanced intermediate students express complex ideas in Spanish. Prerequisite: SPAN 28202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 38213 SPANISH READING AND CONVERSATION

This course provides reading techniques and develops oral skills to help advanced intermediate students express complex ideas in Spanish. Prerequisite: SPAN 38211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 38215 SPANISH PHONETICS AND DICTION

Study of the modern Spanish sound system with special emphasis on pronunciation and intonation. Prerequisite: SPAN 38211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 38231 TRANSLATION PRACTICE:SPANISH

Translation practice with Spanish texts using principles and techniques learned in the lecture class. To be taken concurrently with MCLS 30230. Corequisite: TRST 30230.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 38240 CONVERSATION FOR BUSINESS AND SPECIAL PURPOSES:SPANISH

Introduction to the special vocabulary of business and other special subject areas; introduces the concept of language for special purposes and emphasizes the use of special vocabularies in conversations in business and other settings. Prerequisite: SPAN 38213.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 38330 EARLY SPANISH LITERATURE

Outline of development, reading of representative works to 1700. Prerequisite: SPAN 38211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

Course Attributes: Writing Intensive Course

SPAN 38331 RECENT SPANISH LITERATURE

Outline of development, reading of representative works 1700 present. Prerequisite: SPAN 38211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

Course Attributes: Writing Intensive Course

SPAN 38334 EARLY SPANISH-AMERICAN LITERATURE

Outline of development, reading of representative works including indigenous literature, 1492-1882. Prerequisite: SPAN 38211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

Course Attributes: Writing Intensive Course

SPAN 38335 RECENT SPANISH-AMERICAN LITERATURE

Outline of the development of modern Spanish-American literature (1882 to the present). Reading of representative works. Prerequisite: SPAN 38211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

Course Attributes: Writing Intensive Course

SPAN 38421 CIVILIZATION OF SPAIN

General survey of evolution of Spanish civilization from antiquity to present day.

Prerequisite: SPAN 38211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 38424 CULTURE AND CIVILIZATION OF LATIN AMERICA

A thematic approach to the study of four or five representative Latin American countries focusing on 19th-and 20th-century Latin American culture and society. Prerequisite: SPAN 38211.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 48093 VARIABLE TITLE WORKSHOP IN SPANISH

Workshops individually designed to provide instruction and training in specific areas of Hispanic studies. S u graded. Prerequisite: Departmental permission.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Modern and Classical
Language Studies

SPAN 48095 SELECTED TOPICS IN SPANISH

Topic announced in Schedule of Classes.

Repeatable for a total of 9 hours.

Prerequisite: 9 hours above 20000-level of Spanish (SPAN) courses.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 48096 INDIVIDUAL INVESTIGATION

Allows the advanced, serious student to carry out research study project on Spanish literature language or culture. Prior approval of supervising faculty member department required. Repeatable for a total of 6 hours. Prerequisite: Special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Modern and Classical
Language Studies

SPAN 48215 ADVANCED SPANISH COMP AND CONV

Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts. Prerequisite: SPAN 38211 and SPAN 38213; and one of SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335; and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 48216 CONTEMPORARY HISPANIC CULTURE

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world. Prerequisite: 6 hours from 30000-level Spanish courses.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture



Department: Modern and Classical
Language Studies

SPAN 48230 ADVANCED TRANSLATION PRACTICE: SPANISH

Theory and practice course that discusses translation theory and emphasizes Spanish-to-English translation of selected texts in business, technology, medicine and law. Prerequisite: SPAN 38231. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies Course Attributes: Writing Intensive Course

SPAN 48240 BUSINESS AND SPECIAL TEXTS: SPANISH

Survey of the typical text types of business in the Spanish culture and language. Practice sessions focus on reading and understanding specialized texts and on the translation and composition of selected special texts in Spanish. Prerequisite: SPAN 38211. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48340 MEDIEVAL SPANISH POETRY

Spanish poetry from its origins to 1500. Prerequisite: 6 credit hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48350 DON QUIXOTE

A penetrating study of Cervantes' masterpiece. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48351 MINOR WORKS OF CERVANTES

La Numancia, Entremeses, La Galatea, Novelas ejemplares. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48352 MEDIEVAL SPANISH PROSE

The development of medieval Spanish prose, with special emphasis on La Celestina. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48354 NEOCLASSICISM AND ROMANTICISM

Survey of neoclassicism and romanticism in Spain. Prerequisite: 9 hours of Spanish courses above the SPAN 38211 level. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48356 GOLDEN AGE PROSE

Study of the development of the various forms of prose fiction during the Spanish Golden Age. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48358 NINETEENTH-CENTURY NOVEL

Analysis and critical interpretation of outstanding representatives of 19th-century novel. Prerequisite: SPAN 38421 and SPAN 38331. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48360 TWENTIETH-CENTURY SPANISH DRAMA

Representative works of leading Spanish dramatists of the 20th century. Prerequisite: SPAN 38421 and SPAN 38331. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48364 GENERATION OF '98 AND AFTER

Intensive reading of representative works with examination of the history leading to this group. Prerequisite: SPAN 38421 and SPAN 38331. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture

Department: Modern and Classical
Language Studies

SPAN 48366 THE NOVEL OF THE MEXICAN REVOLUTION

A critical sociocultural and literary examination of selected Mexican novels that explore a variety of responses to the first major twentieth-century mass upheaval in Latin America known as the Mexican Revolution. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48370 MODERNISMO IN SPANISH-AMERICA

Ruben Dario and other writers of the modernista movement; works include modernist poetry, short story and essay. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48372 SPANISH-AMERICAN NOVEL I

A cultural and literary analysis of selected major Spanish-American novels written between 1900 and 1950. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48373 SPANISH AMERICAN NOVEL II

A cultural and literary analysis of selected major Spanish-American novels written from 1950 to the present. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Modern and Classical Language Studies

SPAN 48374 MODERN SPANISH AMERICAN DRAMA

Analysis of selected plays from various Spanish-American countries. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture



Department: Modern and Classical
Language Studies

**SPAN 48376 CONTEMPORARY
SPANISH-AMERICAN SHORT STORY**

The development of the Spanish-American short story from 1917 to the present. Prerequisite: 6 hours from SPAN 38330 and SPAN 38331 and SPAN 38334 and SPAN 38335.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 48378 U.S. LATINA/O WRITERS

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters. Prerequisites: SPAN 38211 and SPAN 38213; and one of the following: SPAN 38330 or SPAN 38331 or SPAN 38334 or SPAN 38335.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 48422 EARLY SPANISH-
AMERICAN DISCOURSE**

This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression. Prerequisite: SPAN 38213 and SPAN 38334.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 48423 SPANISH-AMERICAN
INDIAN DISCOURSE**

This course provides a critical analysis of cultural and literary issues in selected excerpts of the Spanish-American Indian expression from pre-Columbian to Colonial times. Prerequisite: SPAN 38213 and SPAN 38334.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 58095 SELECTED TOPICS IN
SPANISH**

Topic to be announced in semester schedule of classes. May be repeated to maximum of 15 hours. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Modern and Classical
Language Studies

**SPAN 58216 CONTEMPORARY
HISPANIC CULTURE**

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 58340 MEDIEVAL SPANISH
POETRY**

Spanish poetry from its origins to 1500. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58350 DON QUIXOTE

A detailed study of Cervantes' masterpiece. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 58351 MINOR WORKS OF
CERVANTES**

La Numancia, Entremeses, La Galatea, Novelas ejemplares. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 58352 MEDIEVAL SPANISH
PROSE**

The development of medieval Spanish prose, with special emphasis on La Celestina. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 58354 NEOCLASSICISM AND
ROMANTICISM**

Survey of neoclassicism and romanticism in Spain. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58356 GOLDEN AGE PROSE

Study of the development of the various forms of prose fiction during the Spanish golden age. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58358 19TH-CENTURY NOVEL

Analysis and critical interpretation of outstanding representatives of the 19th century novel. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 58360 20TH-CENTURY SPANISH
DRAMA**

Representative works of leading Spanish dramatists of the 20th century. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 58364 GENERATION OF '98 AND
AFTER**

Intensive reading of representative works with an examination of the historical circumstances that led to the formation of the Generation of '98. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 58366 THE NOVEL OF THE
MEXICAN REVOLUTION**

A critical sociocultural and literary examination of selected Mexican novels that explore a variety of responses to the first major twentieth-century mass upheaval in Latin America known as the Mexican Revolution. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

**SPAN 58370 MODERNISM IN SPANISH
AMERICA**

Ruben Dario and other writers of the Modernista movement; works include modernist poetry, short story and essay. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours



Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58372 SPANISH-AMERICAN NOVEL I

A cultural and literary analysis of selected major Spanish-American novels written between 1900 and 1950. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58373 SPANISH-AMERICAN NOVEL II

A cultural and literary analysis of selected major Spanish-American novels written from 1950 to the present. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58374 MODERN SPANISH-AMERICAN DRAMA

Analysis of selected plays from various Spanish-American countries. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58376 CONTEMPORARY SPANISH-AMERICAN SHORT STORY

The development of the Spanish-American short story from 1917 to the present. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58378 U.S. LATINA/O WRITERS

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58422 EARLY SPANISH-AMERICAN DISCOURSE

This course provides a critical analysis of cultural and literary issues on texts dealing with early colonial Spanish-American expression. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 58423 SPANISH-AMERICAN INDIAN DISCOURSE

This course provides a critical analysis of cultural and literary issues in selected excerpts of the Spanish-American Indian expression from pre-Columbian to colonial times. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 68001 SPANISH LITERARY RESEARCH AND WRITING

Individual instruction with problems encountered in academic research and writing in Spanish. Required of all graduate students in their first semester of graduate work. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 68010 THE PRACTICE OF SPANISH TRANSLATION

Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010 and graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 68093 VARIABLE TITLE WORKSHOP IN SPANISH

Workshops individually designed to provide instruction and training in specific areas of Spanish studies. S u graded. Prerequisite: Permission.
1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Modern and Classical
Language Studies

SPAN 68095 SELECTED TOPICS

Selected topics on Spanish literature or linguistics. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 68098 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned applied toward degree requirements if department approves. Repeated registration permitted. "ip" permissible. Prerequisite: Permission.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Modern and Classical
Language Studies

SPAN 68191 SEMINAR IN FICTION

Intensive study of one or two major writers or of a movement in the history of Spanish and Spanish-American fiction. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Modern and Classical
Language Studies

SPAN 68199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Modern and Classical
Language Studies

SPAN 68201 READING SPANISH FOR GRADUATE STUDENTS

Introduction to the fundamentals of Spanish grammar for graduate students. Practice in reading and translation. Prerequisite: Graduate standing.
4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 68202 READING SPANISH FOR GRADUATE STUDENTS

Specialized graded readings in Spanish for students in the humanities and social sciences. Not open to Spanish majors. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical
Language Studies

SPAN 68215 ADVANCED SPANISH COMP AND CONV

Focuses on description, summary, narration, exposition and argumentation on topics dealing with diverse areas of



Hispanic culture as presented through literary and non-fiction texts. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

SPAN 68240 LITERARY AND CULTURAL TRANSLATION

Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Spanish will also be emphasized. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

SPAN 68250 COMMERCIAL, LEGAL AND DIPLOMATIC TRANSLATION

An introduction to methods and resources for the translation of commercial, economic financial legal diplomatic and governmental documents. Prerequisite: TRST 60010 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

SPAN 68251 SCIENTIFIC, TECHNICAL AND MEDICAL TRANSLATION

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

SPAN 68299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: SPAN 68199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Modern and Classical Language Studies

SPAN 68391 SEMINAR IN THEATRE

Intensive study of one or two major dramatists or movements in the history of Spanish and Spanish-American theatre. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar

Department: Modern and Classical Language Studies

SPAN 68591 SEMINAR IN POETRY

Intensive study of one or two major poets or of a movement in the history of Spanish and Spanish-American poetry. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Modern and Classical Language Studies

SPAN 68979 CASE STUDY IN TRANSLATION

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

Special Education (SPED)

SPED 19201 AMERICAN SIGN LANGUAGE I

An introduction to American Sign Language and deaf culture. Development of beginning visual receptive ASL skills and introductory expressive skills. Prerequisite: None.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 19202 AMERICAN SIGN LANGUAGE II

A continuation of the introduction to American Sign Language and deaf culture. Continued development of basic visual receptive ASL skills and expressive skills. Prerequisite: ASL 19201 or SPED 19201.
4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 23000 INTRODUCTION TO EXCEPTIONALITIES

Introduction to student exceptionalities, service delivery/placement options and multidisciplinary team process. Focus on identification of characteristics definition and identification procedures of students with exceptionalities. 15 clinical hours. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
15.000 Other hours
Level: Undergraduate

Schedule Types: Clinic, Lecture
Department: Lifespan Development and Educational Sciences
Course Attributes: Diversity Course-Domestic, TAG Education

SPED 29201 AMERICAN SIGN LANGUAGE III

Development of ASL fluency in expressive and receptive mode to intermediate level. Continue to increase awareness of deaf cultural values, customs and conversational habits. Prerequisite: ASL 19202 or SPED 19202.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 29202 AMERICAN SIGN LANGUAGE IV

Development of ASL fluency in expressive and receptive mode to beginning advanced. Continue to increase awareness of deaf cultural values, customs and conversational habits. Prerequisite: ASL 29201 or SPED 29201.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 39201 AMERICAN SIGN LANGUAGE V

Development of ASL fluency in expressive/receptive modes to advanced levels to enable communication at conversational speed with unfamiliar deaf individuals. Focus on differences in sign according to gender and age. Increased awareness of deaf cultural, values, customs, conversational habits. Prerequisites: ASL 29202 or SPED 29202; and admission to advanced study.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 39202 AMERICAN SIGN LANGUAGE VI

ASL fluency expressive and receptive modes to advanced levels; enable fluent communication with unfamiliar deaf individuals using culturally, situationally, gender and register-specific conversational repair strategies when needed. Increased awareness of deaf cultural values. Prerequisite: ASL 39201 or SPED 39201; and admission to advanced standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences



SPED 40093 WORKSHOP IN SPECIAL EDUCATION

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University faculty and other institutions. Offered irregularly. Prerequisite: None.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

SPED 43010 FAMILY AND PROFESSIONAL COLLABORATION

This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions which provide services to them. Use of collaborative, interdisciplinary and interagency models in special education. 20 clinical and 10 field hours. Prerequisite: SPED 23000 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43020 ASSESSMENT IN SPECIAL EDUCATION

Use/interpretation normed, criterion-referenced and informal curriculum-based assessments for students with mild/moderate disabilities. Standards-based alternative assessments for student with intensive needs. 10 field and 20 clinical hours. Prerequisites: Prerequisite: CI 47501 and 47504. Corequisite: SPED 43992 or 43392 or 44092 or 44192.

3.000 Credit hours

3.000 Lecture hours

75.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience, Lecture

Department: Lifespan Development and Educational Sciences

Course Attributes: Writing Intensive Course

SPED 43030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES

Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours. Prerequisite: SPED 23000 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Field Experience, Lecture

Department: Lifespan Development and Educational Sciences

SPED 43031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION

Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours. Prerequisites: SPED 43030 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

40.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience, Lecture

Department: Lifespan Development and Educational Sciences

SPED 43040 LANGUAGE AND READING IN SPECIAL EDUCATION

Instructional approaches to teaching reading/language arts to students with disabilities. Emphasis on adapting instructional techniques, materials, assessments to meet the needs of learners with disabilities. Contains 15 clinical and 15 field hours. Prerequisite: Admission to advanced study and ECED 40105 and 40126; and CI 47504.

3.000 Credit hours

1.000 Lecture hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Clinic, Field Experience, Lecture

Department: Lifespan Development and Educational Sciences

SPED 43050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS

Definitions, causes and characteristics and social and educational implications of learning developmental and emotional/behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions current issues. 10 clinical and 10 field hours. Prerequisite: SPED 23000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS

Overview of specific facets and causes of severe disabilities, physical/psychological aspects, family societal responses political trends etiology and medical implications educational and vocational programming assessment and treatment planning assistive technology. 10 clinical 10 field hours. Prerequisite: SPED 23000.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43060 CURRICULUM METHODS IN SPECIAL EDUCATION

Curriculum development, programming, delivery for students with mild, moderate or intensive disabilities. Emphasis on application of state standards to IEP development. Adapting instructional techniques, materials, assessment to meet needs. 33 field/clinical hours. Prerequisite: admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

33.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience, Lecture

Department: Lifespan Development and Educational Sciences

SPED 43062 CURRICULUM METHODS MILD/MODERATE INTERVENTION

Delivery and adaptation of evidence-based practices for students with mild/moderate disabilities. Emphasis on achievement in general curriculum. Training to mentor other professionals. Prerequisite: SPED 43060 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION

Meeting academic, socialization, health, motor skills, communication needs in inclusive setting. Working with paraprofessionals to provide community-based instruction assessment observation record-keeping, IEPs and ITPs, lesson plans. Prerequisite: SPED 43060 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43070 PLANNING AND PROGRAMMING FOR TRANSITIONS

This course addresses lifespan community participation and the planning, support development and services available to accomplish it. Introduction to community agencies and adult services. 10 clinical and 15 field hours. Prerequisite: SPED 43050 or SPED 43051 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

**SPED 43080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES**

Examines application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours. Prerequisite: SPED 43050 or SPED 43051 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43092 DEAF RESIDENTIAL SCHOOL FIELD EXPERIENCE

Week-long practicum at a residential school for the deaf; 24-hour interaction with deaf students and adults. Students stay on campus. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the Department. Prerequisites: ASL 29202 or SPED 29202 with a minimum grade of B- (2.7); and SPED 43309 with a minimum grade of B- (2.7); and admission to advanced study.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

SPED 43100 SURVEY OF THE INTERPRETING PROFESSION

Issues and concerns facing educational interpreters; legal mandates and constraints; ethical guidelines and their application to educational environments; roles/responsibilities, including sign interpreting/transliterating, team membership, classroom and building roles and negotiating the educational environment. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43101 DEAF CULTURE AND COMMUNITY

Exploration of historical events and figures from deaf community perspective. Life experiences of "typical" deaf individuals as minority culture representatives interacting with majority culture institutions and processes as depicted in narrative storytelling and folklore. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43102 INTERPRETING PROCESSES DEAF/HARD-OF-HEARING I

Beginning level interpreting course addressing voice-to-sign and sign-to-voice processes using simultaneous and consecutive strategies: ASL, SEE, signed English, total communication signing. PreDepartment, primary, elementary students developmentally delayed through gifted academic levels. Requires 20 hours of field experience. Prerequisites: ASL 29202 or SPED 29202; and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Field Experience, Lecture
Department: Lifespan Development and Educational Sciences

SPED 43103 INTERPRETING PROCESSES DEAF/HARD-OF-HEARING II

Intermediate/advanced level interpreting course voice-to-sign and sign-to-voice processes using simultaneous and consecutive strategies: ASL, SEE, Signed English, Total Communication. Focus on middle Department/high Department/postsecondary students developmentally delayed through gifted academic levels. Requires 30 hours of field experience. Prerequisite: ASL39201 or SPED 39201; and SPED 43102 and SPED 43105 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43104 ADVANCED VOICE-TO-SIGN INTERPRETING

Continued advanced-level skill development in voice-to-sign processes using simultaneous and consecutive strategies: advanced ASL, SEE, Signed English, Total Communication. Dialect idiom, idiosyncratic language3 usage and patterns, regional/local variations; age, gender, register variations. Requires 30 hours field experience. Prerequisite: ASL39202 or SPED 39202; and SPED 43103 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Field Experience, Lecture

Department: Lifespan Development and Educational Sciences

SPED 43105 SIGNED ENGLISH AND OTHER SYSTEMS

Receptive and expressive use of English-based sign language systems; ASL root words, prefix/ suffix use, simultaneous speaking and signing. Explanation and demonstration of Cued speech; exploration of the research related to individuals who use Cued speech. Prerequisites: ASL 29202 or SPED 29202; and SPED 43100; and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43106 CLASSROOM SETTING INTERPRETING

Issues and challenges of classroom-based educational interpreting. Mainstreaming, inclusion, resource room, and self-contained academic and nonacademic class preparation and interpreting environments. Off-campus practicum four hours each week to observe and assist with classroom interpreting. Prerequisites: ASL 19202 or SPED 19202; and SPED 43100.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43107 NONCLASSROOM SETTING INTERPRETING

Issues and challenges of non-classroom based educational interpreting. Student participation with IEP-designated related services; professional consultations; assessment interpreting; miscellaneous interpreting. Off-campus practicum four hours a week to observe and assist with classroom interpreting. Prerequisites: ASL 29201 or SPED 29201; and SPED 43100.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43108 AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE

Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system; impact of educational setting characteristics on linguistic processes. Prerequisites: ASL 29202 or SPED 29202; and SPED 43100; and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43109 CUED SPEECH AND ORAL INTERPRETING

Introduction to Cued speech using hand shapes and hand positions to differentiate between homophonous sounds; theoretical background and development history; oral interpreting homophonous sounds, synonym selection processes; positioning, lighting, and related concerns and issues. Prerequisites: ASL 29202 or SPED 29202; and SPED 43100; and admission to advanced study.

3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 43110 DISCOURSE ANALYSIS FOR INTERPRETERS

Spoken English and American Sign Language usage are studied as they appear in conversational, situational and interpreted contexts. Analysis of discourse and self-analysis of classroom discourse are targeted. Prerequisite: SPED 43100 and SPED 43102 and SPED 43106 and SPED 43107. Corequisite: SPED 43101.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 43111 THE PROFESSIONAL INTERPRETER

Covers current trends in the field regarding situational and ethical issues. Demand/control schema and ethics are the focus to prepare students for the national certification test. Prerequisite: SPED 43100 and SPED 43106.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 43192 PRACTICUM IN EDUCATIONAL INTERPRETING

Field-based practicum experience provides pre-service educational interpreters with opportunity to participate with currently practicing master educational interpreters. Students placed in education-based settings. University supervisor and teacher mentor observe and assess student skill. Repeated registration permitted. Prerequisites: ASL 29202 or SPED 29202; and SPED 43100; and admission to advanced study.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

SPED 43309 INTRODUCTION TO DEAF STUDIES

Introductory survey course provides informational base and understanding of experiences of deaf people as a cultural minority. Includes etiology and prevalence data, service delivery systems, diagnosis and assessment of issues and communication systems. 20 field hours. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

Course Attributes: Writing Intensive Course

SPED 43310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS

Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of-hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Includes 20 hours of field work. Course may be repeated up to 3 times. Prerequisites: SPED 43309 with a minimum grade of B- (2.7); and SPED 29202 or ASL 29202 with a minimum grade of B- (2.7); and SPA 34104; and admission to advanced study. Corequisite: SPED 43392.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 43311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS

IEP and transition planning strategies and program content for deaf/hard-of-hearing students w/ADHD, BD, DD, VI, DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas. Prerequisite: PED 43313 with a minimum grade of B (3.0); and admission to advanced study. Corequisite: 2 credit hours of SPED 43392
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 43313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS

Theoretical overview integrated linguistics curriculum. Reading theories; difficulties for students with significant hearing loss and auditory processing difficulties; instructional planning; materials design; ongoing assessment strategies. Course includes a practicum placement. Prerequisites: SPED 43310 with a minimum grade of B-; SPED 29202 or ASL 29202 with a minimum grade of B- (2.7); and CI 47504 or ECED 40126; and admission to advanced study. Corequisite: 2 credit hours of SPED 43392.
6.000 Credit hours
6.000 Lecture hours
Level: Undergraduate

Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 43316 EARLY CHILDHOOD DEAF EDUCATION: FAMILY AND CHILD SERVICE PROVISION

Targets the issues and needs of young deaf/hard-of-hearing children and their families. Topics covered relate to service provision in the home and classroom for deaf/hard-of-hearing children from birth to 5 years of age. Includes 30 hours of work in a practicum placement with a young D/HH child and his/her family. Prerequisites: SPED 43310; ASL/SPED 29202 or Sign Language Proficiency Interview (SLPI) at intermediate or above.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 43324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD-OF-HEARING STUDENTS

Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing. Prerequisites: SPED 43313 with a minimum grade of B- (2.7); CI 47501 and 47502; and admission to advanced study. Corequisite: 2 credit hours of SPED 43392.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 43392 PRACTICUM: DEAF EDUCATION

This classroom and field-based experience is designed to provide students/pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing students (D/HH) students. Students/pre-service teachers gain experience in working with D/HH students with diverse needs, disabilities and ethnic/cultural backgrounds. In addition, students/pre-service teachers become familiar with the variety of educational settings available for D/HH students. The class meets five times during the semester and the faculty make 1-2 observations of the student/pre-service deaf educator as s/he implements instructional activities. Course is repeatable up to 3 credit hours. Prerequisite: SPED 29202.
1.000 TO 3.000 Credit hours
10.000 TO 60.000 Other hours
Level: Undergraduate



Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

SPED 43529 NATURE AND NEEDS OF GIFTED CHILDREN

Personal characteristics, abilities and potentialities of gifted through review of related research. Evaluation of research findings and implications for psycho-educational development. Prerequisite: PSYC 11762 and sophomore standing and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43530 INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN

Discovery and guidance of mentally superior children. Provision for school attention and accommodations. Case studies of gifted children. Selecting appropriate instructional strategies. Prerequisite: SPED 43529 and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43534 SOCIAL AND EMOTIONAL COMPONENTS OF GIFTEDNESS

Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults. Prerequisite: PSYC 11762 and sophomore standing and admission to advanced study.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 43981 STUDENT TEACHING IN SPECIAL EDUCATION

Provides opportunity to demonstrate skills in teaching. Students placed in education-based settings; assume total teaching responsibilities of students with exceptionalities for 200 clock hours under the supervision of the Department-based mentor teacher and the university supervisor. Prerequisite: Admission to advanced study. Corequisite: SPED 49525.

4.000 TO 9.000 Credit hours

9.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

SPED 43991 SEMINAR IN SPECIAL EDUCATION

Undergraduate seminar in special education; varied topics. Prerequisite: Admission to advanced study.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

SPED 43992 FIELD EXPERIENCE IN SPECIAL EDUCATION

Provides opportunity to observe master teachers and begin working with students. Students are placed in education-based settings and work with a team of professionals to understand techniques for providing services to students with exceptionalities. Five seminar meetings. Prerequisite: Admission to advanced study..

2.000 TO 4.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Lifespan Development and Educational Sciences

SPED 43996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION

1.000 TO 10.000 Credit hours

10.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

SPED 44092 FIELD EXPERIENCE FOR MILD/MODERATE INTERVENTION SPECIALIST

Field assignments in conjunction with mild/moderate coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards. Prerequisite: SPED 43992 and 43060 and admission to advanced study.

2.000 OR 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Lifespan Development and Educational Sciences

SPED 44192 FIELD EXPERIENCE FOR MODERATE/INTENSIVE INTERVENTION SPECIALIST

Field assignments in conjunction with moderate/intensive coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards. Prerequisite: SPED 43992 and 43060 and admission to advanced study.

2.000 OR 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Field Experience

Department: Lifespan Development and Educational Sciences

SPED 49525 INQUIRY SEMINAR INTO PROFESSIONAL PRACTICE

Focus on effective, ethical and responsible implication of professional practice.

Provides vehicle to articulate and demonstrate professional competencies, commitment and ethical decision making for providing services to students. Prerequisite: Admission to advanced study. Corequisite: SPED 43981.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

SPED 50093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty. Offered irregularly. Prerequisite: Graduate standing.

1.000 TO 5.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

SPED 53010 FAMILY AND PROFESSIONAL COLLABORATION

This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions which provide services to them. Use of collaborative interdisciplinary and interagency models in special education. 20 clinical and 10 field hours. Prerequisite: SPED 63200 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 53020 ASSESSMENT IN SPECIAL EDUCATION

Use/interpretation normed, criterion-referenced and informal curriculum-based assessments for students with mild/moderate disabilities. Standards-based alternative assessments for student with intensive needs. 10 field and 20 clinical hours. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

75.000 Other hours

Level: Graduate

Schedule Types: Field Experience, Lecture

Department: Lifespan Development and Educational Sciences

SPED 53030 APPLIED BEHAVIOR ANALYSIS I: THEORY AND TECHNIQUES

Theory and techniques associated with applied behavior analysis. Approaches for establishing, implementing, maintaining and monitoring skill development are



emphasized. Procedures for assessing and modifying classroom environments/instructional techniques to enhance learning/behavior of individuals with disabilities, with specific emphasis on preventing, increasing positive and decreasing inappropriate behavior are introduced. 25 field hours. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53031 APPLIED BEHAVIOR ANALYSIS II: APPLICATION

Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 43030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours. Prerequisite: SPED 53030 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
40.000 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Lifespan Development and Educational Sciences

SPED 53040 LANGUAGE AND READING IN SPECIAL EDUCATION

Instructional approaches to teaching reading/language arts to students with disabilities. Emphasis on adapting instructional techniques, materials, assessments to meet the needs of learners with disabilities. Contains 15 clinical and 15 field hours. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Clinic, Field Experience, Lecture
Department: Lifespan Development and Educational Sciences

SPED 53050 CHARACTERISTICS OF STUDENTS WITH MILD/MODERATE INTERVENTION NEEDS

Definitions, causes, characteristics; social, educational implications of learning developmental and emotional behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions; current issues. 10 clinical and 10 field hours. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53051 CHARACTERISTICS OF STUDENTS WITH MODERATE/INTENSIVE INTERVENTION NEEDS

Overview of specific facets and causes of severe disabilities, physical/psychological aspects family/societal responses, political trends, etiology and medical implications, educational and vocational programming, assessment and treatment planning, assistive technology. 10 clinical 10 field hours. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53060 CURRICULUM METHODS IN SPECIAL EDUCATION

Curriculum development, programming, delivery for students with mild to moderate disabilities. Introduction to transition planning. Emphasis on functional curriculum and adapting instructional techniques, materials, assessment to meet needs. 33 field clinical hours. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
33.000 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Lifespan Development and Educational Sciences

SPED 53062 CURRICULUM METHODS MILD/MODERATE INTERVENTION

Delivery and adaptation of evidence-based practices for students with mild/moderate disabilities. Emphasis on achievement in general curriculum. Training to mentor other professionals. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53063 CURRICULUM METHODS MODERATE/INTENSIVE INTERVENTION

Meeting academic, socialization, health, motor skills, communication needs in inclusive setting. Working with paraprofessionals to provide community-based instruction, assessment, observation, record-keeping IEPs and ITPS lesson plans. Prerequisite: SPED 53060.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53070 PLANNING AND PROGRAMMING FOR TRANSITIONS

This course addresses life-span community participation and the planning, support, development, and services available to accomplish it. Introduction to community

agencies and adult services. 10 clinical 15 field hours. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53080 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES

Examines application of high and low technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours. Prerequisite: SPED 53050 or SPED 53051 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53092 DEAF RESIDENTIAL SCHOOL INTERNSHIP

Week-long practicum at a residential school for the deaf; 24-hour interaction with deaf students and adults. Student stay on campus. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the Department. Prerequisite: ASL or SPED 29202 with a minimum grade of B- (2.7); and SPED 53309 with a minimum grade of B- (2.7); and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

SPED 53100 SURVEY OF INTERPRETING PROFESSION

Issues and concerns facing educational interpreters: legal mandates and constraints, ethical guidelines and their application to educational environments, roles/responsibilities including sign interpreting/transliterating, team membership, classroom and building roles, and negotiating the educational environment. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53101 DEAF CULTURE AND COMMUNITY

Exploration of historical events and figures from deaf community perspective. Life experiences of "typical" deaf individuals as minority culture representatives interacting with majority culture institutions and processes as depicted in narrative storytelling and folklore. Prerequisite: Graduate standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53102 INTERPRETING PROCESSES DEAF/HARD OF HEARING I

Beginning level interpreting course addressing voice-to-sign and sign-to-voice processes using simultaneous and consecutive strategies: ASL, SEE, signed English, total communication signing. PreDepartment, primary, elementary students developmentally delayed through gifted academic levels. Requires 20 hours of field experience. Prerequisite: Graduate standing.

3.000 Credit hours
2.000 Lecture hours
1.000 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Lifespan Development and Educational Sciences

SPED 53103 INTERPRETING PROCESSES DEAF/HARD OF HEARING II

Intermediate/advanced level interpreting course voice-to-sign and sign-to-voice processes using simultaneous and consecutive strategies: ASL, SEE, Signed English, Total Communication. Focus on middle Department/high Department/postsecondary students developmentally delayed through gifted academic levels. Requires 30 hours of field experience. Prerequisite: SPED 39201 and SPED 4/53105 and SPED 4/53102 and graduate standing.

3.000 Credit hours
2.000 Lecture hours
1.000 Other hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Lifespan Development and Educational Sciences

SPED 53104 INTERPRETING PROCESS III

Continued advanced-level skill development in voice-to-sign processes using simultaneous and consecutive strategies: advanced ASL, SEE, Signed English, Total Communication. Dialect idiom, idiosyncratic language3 usage and patterns, regional/local variations; age, gender, register variations, Requires 30 hours field experience. Prerequisite: SPED 39201 and 4/53103 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Field Experience, Lecture
Department: Lifespan Development and Educational Sciences

SPED 53105 SIGNED ENGLISH AND OTHER SYSTEMS

Receptive and expressive use of English-based sign language systems; ASL root

words, prefix/suffix use, simultaneous speaking and signing. Explanation and demonstration of cued speech, exploration of the research related to individuals who use cued speech. Prerequisite: SPED 4/53100 and ASL or SPED 29202 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53106 CLASSROOM-SETTING INTERPRETING

Issues and challenges of classroom-based educational interpreting. Mainstreaming, inclusion, resource room, and self contained academic and non academic class preparation and interpreting environments. Off-campus practicum four hours each week to observe and assist with classroom interpreting. Prerequisite: SPED 4/53100 and SPED 19201 or ASL 19201 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53107 NONCLASSROOM-SETTING INTERPRETING

Issues and challenges of non-classroom-based educational interpreting. Student participation with IEP-designated related services professional consultations assessment interpreting miscellaneous interpreting. Off-campus practicum four hours a week to observe and assist with classroom interpreting. Prerequisite: SPED 4/53100 and SPED 29201 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53108 AMERICAN SIGN LANGUAGE LINGUISTICS AND USAGE

Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system, impact of educational-setting characteristics on linguistic processes. Prerequisite: SPED 4/53100 and SPED 29202 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53109 CUED SPEECH AND ORAL INTERPRETING

Introduction to cued speech using hand shapes and hand positions to differentiate between homophonous sounds; theoretical

background and development history; oral interpreting homophonous sounds, synonym selection processes; positioning; lighting and related concerns and issues. Prerequisite: SPED 29202 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53110 DISCOURSE ANALYSIS FOR INTERPRETERS

Spoken English and ASL usage is studied as they appear in conversational, situational and interpreted contexts. Analysis of discourse and self-analysis of classroom discourse are targeted. Prerequisite: SPED 43100 and SPED 43102 and SPED 43106 and SPED 43107. Corequisite SPED 43101.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53111 THE PROFESSIONAL INTERPRETER

Covers current trends in the field regarding situational and ethical issues. Demand/Control schema and Ethics are the focus to prepare students for the national certification test. Prerequisite: SPED 43100 and SPED 43106 and SPED 53100 and SPED 53106.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53192 PRACTICUM: INTERPRETING PROCESS

Field-based practicum experience provides pre-service educational interpreters with opportunity to participate with currently practicing master educational interpreters. Students placed in education based settings. University supervisor and teacher mentor observe and assess student skill. Prerequisite: SPED 29202 and graduate standing.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

SPED 53309 INTRODUCTION TO DEAF STUDIES

Introductory survey course provides informational base and understanding of experiences of deaf people as a cultural minority. Includes etiology and prevalence data, service delivery systems, diagnosis and assessment of issues and communication systems. 20 field hours. Prerequisite: Graduate standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53310 LANGUAGE DEVELOPMENT FOR DEAF AND HARD-OF-HEARING STUDENTS

Reviews research, theories and theorists in the field of language development for hearing and deaf children; develops awareness of language differences commonly demonstrated by deaf and hard-of-hearing children; demonstrates ways to assess linguistic differences and facilitate instruction. Six topic areas include theories of language development (review), language and cognition, normal language acquisition in signed and spoken languages, child-caregiver interaction, language learning in a bilingual setting and language assessment. Students gain foundational understanding of language development and awareness of classroom applications for this knowledge. Includes 20 hours of field work. Course may be repeated up to 3 times. Prerequisite: SPED 53309 with a minimum grade of B- (2.7); and SPED 29202 or ASL 29202 with a minimum grade of B- (2.7); and SPA 34104; and graduate standing. Corequisite: SPED 63392.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53311 INSTRUCTION OF DEAF/HARD-OF-HEARING STUDENTS WITH SPECIAL NEEDS

IEP and transition planning strategies and program content for deaf/hard-of-hearing students with ADHD, BD, DD, VI, DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson development and adaptation for impacted areas. Prerequisite: SPED 53313 with a minimum grade of B- (2.7) and graduate standing. Corequisite: 2 credit hours of SPED 63392.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53313 LITERACY ASSESSMENT AND INTERVENTION FOR DEAF/HARD-OF-HEARING STUDENTS

Theoretical overview integrated linguistics curriculum. Reading theories: difficulties for students with significant hearing loss and auditory processing difficulties; instructional planning; materials design; ongoing assessment strategies. Course includes a practicum placement. Prerequisite: SPED 53310 with a minimum grade of B- (2.7); and SPED 29202 or ASL 29202 with a minimum grade of B- (2.7); and CI 67310; and graduate standing.

6.000 Credit hours
6.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53316 EARLY CHILDHOOD DEAF EDUCATION: FAMILY AND CHILD SERVICE PROVISION

Targets the issues and needs of young deaf/hard-of-hearing children and their families. Topics covered relate to service provision in the home and classroom for deaf/hard-of-hearing children from birth to 5 years of age. Includes 30 hours of work in a practicum placement with a young D/HH child and his/her family. Prerequisites: SPED 4/53310; ASL/SPED 29202 or Sign Language Proficiency Interview (SLPI) at intermediate or above; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53317 FAMILY-FOCUSED APPROACHES TO COCHLEAR IMPLANT USE

Examines effective support and utilization of cochlear implants from a family perspective. Includes the initial decision making and issues, through the child's and family's adjustment to the activation, use and maintenance of the device. Also focuses on the need long-term and sometimes unexpected outcomes of device usage and ultimately, adolescent and young-adult issues. Prerequisites: SPED 29202 or ASL 29202; and SPED 53310; and SPED 53010 or 63952; and SPA 43600; and graduate standing.
3.000 Credit hours
1.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Lifespan Development and Educational Sciences

SPED 53324 CURRICULUM METHODS AND MATERIALS FOR DEAF/HARD OF HEARING STUDENTS

Designed to provide students with basic knowledge and skills needed to effectively design and implement instruction for deaf and hard-of-hearing students. Conducted through a combination of lectures, discussions, demonstrations and group activities. Upon successful completion, students possess foundational understanding of how to design and implement lessons and curriculum with students who are deaf and hard of hearing. Prerequisite: SPED 43313 with a minimum grade of B- (2.7); CI 57501 and 57502; and graduate standing. Corequisite: 2 credit hours of SPED 63392.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53529 NATURE AND NEEDS OF GIFTED CHILDREN

Personal characteristics, abilities and potentialities of gifted children through review of related research. Evaluation of research findings and implications for psychoeducational development. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53530 INSTRUCTIONAL PROCESSES FOR GIFTED CHILDREN

Discovery and guidance of mentally superior children. Provision for school attention and accommodations. Case studies of gifted children. Selecting appropriate instructional strategies. Prerequisite: SPED 53529 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 53534 SOCIAL/EMOTIONAL COMPONENTS OF GIFTEDNESS

Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 54161 TRANSITIONAL PROGRAMMING AND SERVICES FOR DISABLED YOUTH

Transition from school to work and community life; vocational exploration/assessment and preparation/placement methods and techniques for secondary and postsecondary disabled youth. Prerequisites: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 60094 COLLEGE TEACHING

Discusses major aspects of teaching in higher education, including such topics as students, philosophy of teaching, principles of adult learning, instructional strategies, students assessment and others. Prerequisite: Graduate standing and special approval.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 60199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing and special approval.

2.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Lifespan Development and Educational Sciences

SPED 60299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: SPED 60199 and graduate standing.

2.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Lifespan Development and Educational Sciences

SPED 63030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION

Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/ intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63031 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS

Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized.

Prerequisites: SPED 53030 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63032 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children.

The development, implementation and analysis of functional analysis procedures.

Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hours. Prerequisite: SPED 53030; and SPSY 67920 or 77920; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63092 FIELD EXPERIENCE IN SPECIAL EDUCATION

Prerequisite: graduate standing.

1.000 TO 9.000 Credit hours

9.000 Other hours

Level: Graduate

Schedule Types: Field Experience

Department: Lifespan Development and Educational Sciences

SPED 63101 ADMINISTRATION AND SUPERVISION IN SPECIAL EDUCATION

Administration of educational programs for exceptional children; improvement of teacher competencies; function of special education supervisors; and special education operations at local, state and national levels. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63200 INTRODUCTION TO EXCEPTIONALITIES

Introduction to exceptionalities of student development. Focus on foundations/theories associated with characteristics and accommodations for human exceptionalities.

Collaborative/multidiscipline educational service design. Fifteen clinical/field hours. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63201 ISSUES IN SPECIAL EDUCATION

Surveys current research, literature and policy issues that affect identification, assessment and service provision to students with exceptionalities. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPED 63202 INSTRUCTING STUDENTS WITH SPECIAL NEEDS IN INCLUSIVE SETTINGS

Students will develop knowledge of models of grouping and instructing students with special needs in inclusive settings, with a focus on curricular adaptations and methods of consulting teaming and collaborating. Prerequisite: SPED 23000; and SPED 63200 or SPED 63201; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63300 RESEARCH APPLICATIONS IN SPECIAL EDUCATION

Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum, and assimilating knowledge through applied projects. Prerequisite: graduate standing; and EDPF 65510 or 65511.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63301 SINGLE SUBJECT RESEARCH METHODS

Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63392 ADVANCED PRACTICUM IN HEARING IMPAIRED

This classroom and field-based experience is designed to provide students/pre-service deaf education teachers with the opportunity to develop professional-level skills in working with deaf and hard-of-hearing students (D/HH) students. Students/pre-service teachers gain experience in working with D/HH students with diverse needs, disabilities and



ethnic/cultural backgrounds. In addition, students/pre-service teachers become familiar with the variety of educational settings available for D/HH students. The class meets five times during the semester and the faculty make 1-2 observations of the student/pre-service deaf educator as s/he implements instructional activities.

Prerequisite: graduate standing.

1.000 TO 3.000 Credit hours

12.000 Lecture hours

60.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

SPED 63531 CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS

Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63532 GIFTED PROGRAM DESIGN AND ADMINISTRATION

Fundamentals of designing gifted programs are reviewed. Topics include student identification in service advocacy program evaluation compliance with state standards and teacher preparation. Prerequisite: SPED 53529 and SPED 53530 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63533 GIFTED SUBPOPULATIONS

The characteristics and needs of intellectually gifted individuals who often are not high academic achievers are studied with consideration of the implications for school practices. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63535 INTELLIGENCE, ASSESSMENT AND EVALUATION IN GIFTED EDUCATION

Provides examination of historical/contemporary theories of intelligence and influences on definitions/beliefs about giftedness. Alternative models of assessment discussed and implemented. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES

Overview and comparison of early childhood service approaches including: history and issues in delivering services, developmentally appropriate practice, environmental arrangement and how to modify curriculum. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63952 FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD

Examines issues facing families and professionals serving young children who are at-risk, disabled and typically developing. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63953 PRACTICAL APPLICATIONS: BIRTH TO FIVE

Practical application of recommended practices for young children birth-five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. Sixty field hours. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63954 PRACTICAL APPLICATIONS: FIVE TO EIGHT

Application of recommended practices for children five to eight. Observation of children in natural environment; plan, evaluate, intervention collaboratively. Sixty field hours. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN

Overview of typical/atypical development pathways age 3 to grade 3 including: theories of behavior, implications of atypical

development on play/learning, early childhood development within ecological framework. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES

Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES

Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63958 EARLY CHILDHOOD INTERVENTION METHODS

Specific strategies for working with children birth to eight with intensive needs (e.g. cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies, knowledge and skills. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 63959 MEDICAL ASPECTS OF LIFESPAN DISABILITIES

Description of medical issues facing individuals with lifespan disabilities and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with Autism Spectrum Disorders and other developmental disabilities. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture



Department: Lifespan Development and Educational Sciences

SPED 63991 SEMINAR IN SPECIAL EDUCATION

Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Seminar Department: Lifespan Development and Educational Sciences

SPED 63992 ADVANCED PRACTICUM IN SPECIAL EDUCATION

Recreational, therapeutic and academic experience with exceptional children in camp, school or residential facility. Prerequisite: Graduate standing and special approval. 2.000 TO 8.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Practicum Department: Lifespan Development and Educational Sciences

SPED 63995 SPECIAL TOPICS IN SPED

Specialized offerings in response to emerging or selected program needs. Prerequisite: Graduate standing. 1.000 TO 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Lifespan Development and Educational Sciences

SPED 63996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION

Prerequisite: Graduate standing and special approval. 1.000 TO 10.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Individual Investigation Department: Lifespan Development and Educational Sciences

SPED 63998 RESEARCH: SPECIAL EDUCATION

Prerequisite: Graduate standing and special approval. 1.000 TO 10.000 Credit hours 10.000 Other hours Level: Graduate Schedule Types: Research Department: Lifespan Development and Educational Sciences

SPED 64092 FIELD EXPERIENCE FOR MILD/MODERATE INTERVENTION SPECIALIST

Field assignments in conjunction with mild/moderate coursework. Evaluates students in personal conduct communication skills instructional design and methods and impact on student learning aligned with CEC standards.

Prerequisite: SPED 63992 and SPED 53020 and SPED 53060. Corequisites: SPED 53062 and SPED 53040 and graduate standing. 2.000 OR 3.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Field Experience Department: Lifespan Development and Educational Sciences

SPED 64192 FIELD EXPERIENCE FOR MODERATE/INTENSIVE INTERVENTION SPECIALIST

Field assignments in conjunction with moderate/intensive coursework. Evaluates students in personal conduct communication skills instructional design and methods and impact on student learning aligned with CEC standards. Prerequisite: SPED 63992 and SPED 53020 and SPED 53061. Corequisites: SPED 53063 and SPED 53040 and graduate standing. 2.000 OR 3.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Field Experience Department: Lifespan Development and Educational Sciences

SPED 64309 AUTISM SPECTRUM DISORDERS: THEORY AND DIAGNOSIS

Provides an examination of the medical, developmental, social, cognitive, and communicative aspects of disorders on the Autism Spectrum. Assessment and intervention models are explored as they relate to various theoretical models for understanding the presentation of ASD. Prerequisite: graduate standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Lifespan Development and Educational Sciences

SPED 64310 AUTISM SPECTRUM DISORDERS: LIFESPAN INTERVENTIONS

Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with ASD. Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD. Prerequisite: graduate study. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Lifespan Development and Educational Sciences

SPED 70093 VARIABLE TITLE WORKSHOP IN SPECIAL EDUCATION

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State University and other institution faculty.

Offered irregularly. Prerequisite: Doctoral standing.

1.000 TO 5.000 Credit hours 3.000 Other hours Level: Graduate Schedule Types: Workshop Department: Lifespan Development and Educational Sciences

SPED 70094 COLLEGE TEACHING

Discusses major aspects of teaching in higher education, including such topics as students, philosophy of teaching, principles of adult learning, instructional strategies, students assessment and others. Prerequisite: Doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Lifespan Development and Educational Sciences

SPED 73030 PHARMACOLOGICAL INTERVENTIONS IN SPECIAL EDUCATION

Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions. Prerequisite: Doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Lifespan Development and Educational Sciences

SPED 73031 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS

Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized. Prerequisites: SPED 53030 and doctoral standing. 3.000 Credit hours 3.000 Lecture hours Level: Graduate Schedule Types: Lecture Department: Lifespan Development and Educational Sciences

SPED 73032 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children.



The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs. Prerequisite: SPED 53030; and SPSY 67920 or SPSY 77920 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73531 CURRICULUM DEVELOPMENT FOR GIFTED LEARNERS

Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73532 GIFTED PROGRAM DESIGN AND ADMINISTRATION

Fundamentals of designing gifted programs are reviewed. Topics include student identification, in- service, advocacy, program evaluation, compliance with state standards and teacher preparation. Prerequisite: SPED 53529 and SPED 53530 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73533 GIFTED SUBPOPULATIONS

The characteristics and needs of intellectually gifted individuals who often are not high academic achievers are studied with consideration of the implications for school practices. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73535 INTELLIGENCE, ASSESSMENT AND EVALUATION IN GIFTED EDUCATION

Provides examination of historical/contemporary theories of intelligence and influences on definitions/beliefs about giftedness. Alternative models of assessment discussed and implemented. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73950 CURRICULUM AND INTERVENTION IN EARLY CHILDHOOD SERVICES

Overview and comparison of early childhood service approaches, including history and issues in delivering services, developmentally appropriate practice, environmental arrangement and how to modify curriculum. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73952 FAMILY AND PROFESSIONAL COLLABORATION IN EARLY CHILDHOOD

Examines issues facing families and professionals serving young children who are at-risk, disabled and typically developing. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73953 PRACTICAL APPLICATIONS: BIRTH TO FIVE

Practical application of recommended practices for young children birth-five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. Sixty field hours. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73954 PRACTICAL APPLICATIONS:FIVE TO EIGHT

Application of recommended practices for children five to eight. Observation of children in natural environment; plan/evaluate intervention collaboratively. Sixty field hours. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73955 TYPICAL AND ATYPICAL DEVELOPMENT IN YOUNG CHILDREN

Overview of typical/atypical development pathways age 3 to grade 3, including theories of behavior implications of atypical development on play/learning, early

childhood development within ecological framework. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73956 FOUNDATIONS IN EARLY CHILDHOOD SERVICES

Overview of issues facing young children within context of family/society including: history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment intervention and evaluation. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73957 ASSESSMENT AND EVALUATION OF EARLY CHILDHOOD SERVICES

Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments monitoring progress. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73958 EARLY CHILDHOOD INTERVENTION METHODS

Specific strategies for working with children birth to eight with intensive needs (e.g., cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies knowledge and skills. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73959 MEDICAL ASPECTS OF LIFESPAN DISABILITIES

Description of medical issues facing individuals with lifespan disabilities and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with Autism Spectrum Disorders and other developmental disabilities. Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

**SPED 73991 SEMINAR IN SPECIAL EDUCATION**

Various topics include: behavior modification, research problems in special education, theories in special education, social processes in special education.

Prerequisite: Doctoral standing.

1.000 OR 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

SPED 73995 SPECIAL TOPICS IN SPECIAL EDUCATION

Specialized offerings in response to emerging or selected program needs.

Prerequisite: Doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 73996 INDIVIDUAL INVESTIGATION IN SPECIAL EDUCATION

Prerequisite: Doctoral standing and special approval.

1.000 TO 10.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

SPED 80040 RESEARCH GRANT DEVELOPMENT FOR DISABILITY PROGRAMS

Students develop and write research proposals for grant competitions focusing on disability issues. Considerations for types of competitions and funding sources are discussed. Focus of instruction is related to how to describe the importance of the research proposed, research methods identified, budget, administration of grant activities and evaluation of implementation.

Prerequisite: doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

SPED 80090 DOCTORAL RESIDENCY SEMINAR

Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues and topics. Ordinarily, SPED 80090 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence. Prerequisite: Doctoral standing and special approval.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

SPED 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite:

Doctoral standing.

15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Lifespan Development and Educational Sciences

SPED 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite:

Doctoral standing and SPED 80199.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Lifespan Development and Educational Sciences

SPED 83301 SINGLE SUBJECT RESEARCH METHODS

Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours. Prerequisite:

doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 83952 THE LAW AND SPECIAL EDUCATION

Selected principles of constitutional, statutory, case and common law affecting handicapped and special education students, teachers and administrators are studied. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 83956 BIOMEDICAL ASPECTS OF SPECIAL EDUCATION

Considers neurological, genetic and biochemical factors associated with exceptional children and youth. Discussions focus on development and related issues in serving the exceptional person.

Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 83991 SEMINAR IN SPECIAL EDUCATION

Prerequisite: Doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

SPED 83992 INTERNSHIP IN SPECIAL EDUCATION

Prerequisite: Doctoral standing and permission.

2.000 TO 8.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPED 83998 RESEARCH: SPECIAL EDUCATION

Prerequisite: Doctoral standing and special approval.

1.000 TO 10.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences

School Psychology (SPSY)

SPSY 60093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY

Prerequisite: Grading standing and special approval.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

SPSY 60094 COLLEGE TEACHING

Discusses major aspects of teaching in higher education, including such topics as students philosophy of teaching, principles of adult learning, instructional strategies, students assessment and others.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 60162 DEVELOPMENTAL ASSESSMENT

Reviews the educational, family and regulatory forces that influence success at each significant transition for preDepartment, kindergarten and primary grade children. 24 clinical/field hours.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate



Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 60165 PRINCIPLES OF SOCIAL LEARNING

The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice. 19 clinical/field hours. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 60166 OBSERVATIONAL ANALYSIS OF CLASSROOM INTERACTIONS

A practicum in construction and application of pupil observational assessment and procedures. Developmental and social psychology research is used to develop assessment items. 24 clinical/ field hours. Prerequisite: Graduate standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 60191 SEMINAR: SCHOOL PSYCHOLOGY

Seminar in school psychology. Varied topics. Prerequisite: Graduate standing and special approval.
1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Lifespan Development and Educational Sciences

SPSY 67692 PRACTICUM I IN SCHOOL PSYCHOLOGY

Provides students with supervised experience in applied settings to practice introductory skills in assessment, intervention and professional development. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

SPSY 67792 PRACTICUM II IN SCHOOL PSYCHOLOGY

Supervised experience in educational settings to practice assessment,

intervention, consultation procedures, professional development. Two consecutive semesters same academic year required. 75 clinical/field hrs. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisites: SPSY 67692 and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

SPSY 67892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY

Provides students with advanced supervised experience in educational or mental health settings. 60 clock hours per credit hour. Students register for minimum 6 hours (360 clock hours) across successive semesters. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: SPSY 67792 and special approval and graduate standing.
3.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

SPSY 67912 ROLE OF THE SCHOOL PSYCHOLOGIST

Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical/field hours. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67914 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS

Involves minimum of 120 clock hours of observation in public Department. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public Departments. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of

the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Lifespan Development and Educational Sciences

SPSY 67918 PROBLEMS IN RESEARCH INTERPRETATION

An intensive study of problems associated with typical research findings and publications. Issues include: research, language, hypothesis testing, cost analysis, etc. as related to decision making. Prerequisite: Graduate standing and special approval.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Lifespan Development and Educational Sciences

SPSY 67920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS

Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation). Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS

Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Lifespan Development and Educational Sciences

SPSY 67929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS

Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goal setting and program development are fostered by lecture, video feedback and simulation. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67931 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS

Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized. Prerequisite: SPED 53030 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs. Prerequisite: SPED 53030 and SPSY 67920/77920 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS

Training and experience in administering, scoring and interpreting cognitive measures for children and adolescents and writing

reports. 30 clinical/field hours. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS

Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement, instructional environment and writing psychoeducational and team reports. 25 clinical/field hours. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS

Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS

Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school based academic referrals within a problem solving model. Requires 25 clinical field hours. Prerequisite: SPSY 67955 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY

Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY

This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship. Repeatable up to 6 hours. Prerequisite: Graduate standing and special approval. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Lifespan Development and Educational Sciences

SPSY 67972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS

Training in administration, scoring and interpretation of techniques for assessment of social emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 67973 CONSULTATION IN THE HELPING PROFESSIONS

Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem solving models and crisis consultation. 20 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Lifespan Development and Educational Sciences

SPSY 67974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY

Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for Department-based social and emotional referrals within an eco- behavioral problem-solving model. 25 clinical field hours.



Prerequisite: SPSY 67972 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 67995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY

Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet. Prerequisite: Graduate standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 67996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY

Independent reading and/or research directed by a graduate faculty member. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation
Department: Lifespan Development and Educational Sciences

SPSY 67998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY

Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration. Repeated registration permitted. Prerequisite: Graduate standing and special approval.

1.000 TO 9.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences

SPSY 70093 VARIABLE TITLE WORKSHOP IN SCHOOL PSYCHOLOGY

Prerequisite: Doctoral standing and special approval.

1.000 TO 4.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Lifespan Development and Educational Sciences

SPSY 70094 COLLEGE TEACHING

Discusses major aspects of teaching in higher education, including such topics as students philosophy of teaching, principles of adult learning, instructional strategies, students assessment and others. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 70162 DEVELOPMENTAL ASSESSMENT

Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool kindergarten and primary grade children. 24 clinical field hours. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 70165 PRINCIPLES OF SOCIAL LEARNING

The main focus is to provide students with an understanding of behavioral and social learning principles within the context of the school psychologist's professional practice. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 70166 OBSERVATIONAL ANALYSIS OF CLASSROOM INTERACTIONS

A practicum in construction and application of pupil observational assessment and procedures. Developmental and social psychology research is used to develop assessment items. 24 clinical field hours. Prerequisite: Doctoral standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 70191 SEMINAR: SCHOOL PSYCHOLOGY

Seminar in school psychology. Varied topics. Prerequisite: Doctoral standing and special approval.

1.000 TO 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

SPSY 77692 PRACTICUM I IN SCHOOL PSYCHOLOGY

Provides students with supervised experience in applied settings to practice introductory skills in assessment, intervention and professional development. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of

the semester in which student teaching/ internship will take place. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

SPSY 77792 PRACTICUM II IN SCHOOL PSYCHOLOGY

Supervised experience in educational settings to practice assessment, intervention, consultation procedures, professional development. Two consecutive semesters same academic year required. 75 clinical/field hrs. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned

"Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisites: SPSY 77692 and doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

SPSY 77892 ADVANCED PRACTICUM IN SCHOOL PSYCHOLOGY

Provides students with advanced supervised experience in educational or mental health settings. 60 clock hours credit hr. Students register for minimum 6 hours (360 clock hours) across successive semesters. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: SPSY 77792 and special approval and doctoral standing.

3.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

SPSY 77912 ROLE OF THE SCHOOL PSYCHOLOGIST

Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. Five clinical field hours. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

**SPSY 77914 FIELD EXPERIENCE IN EDUCATION FOR SCHOOL PSYCHOLOGISTS**

Involves minimum of 120 clock hours of observation in public Department. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public Departments. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/internship will take place. Prerequisite: Doctoral standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Field Experience
Department: Lifespan Development and Educational Sciences

SPSY 77918 PROBLEMS IN RESEARCH INTERPRETATION

An intensive study of problems associated with typical research findings and publications. Issues include research, language, hypothesis testing, cost analysis, etc. as related to decision making. Prerequisite: Doctoral standing and special approval.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Lifespan Development and Educational Sciences

SPSY 77920 DIAGNOSIS OF CHILDHOOD DISORDERS IN SCHOOLS

Provides overview of diagnosis of child and adolescent behavior disorders (ADHD, conduct problems) emotional and social disorders (depression, anxiety, phobias) and developmental acquired disorders (autism, mental retardation). Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 77925 INTRODUCTION TO NEUROPSYCHOLOGY FOR SCHOOL PSYCHOLOGISTS

Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions. Prerequisite: Doctoral standing.
1.000 Credit hours
1.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 77928 GROUP COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 77929 INDIVIDUAL COUNSELING TECHNIQUES FOR REHABILITATION COUNSELORS AND SCHOOL PSYCHOLOGISTS

Review of individual counseling techniques. Skills developed in communication interviewing problem identification goal setting and program development are fostered by lecture, video feedback and simulation. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 77931 PROGRAM DEVELOPMENT AND ETHICAL APPLICATION OF APPLIED BEHAVIOR ANALYSIS

Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized. Prerequisites: SPED 53030 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 77932 ADVANCED INTERVENTIONS FOR ADDRESSING SEVERE BEHAVIOR

Use and interpretation of functional behavioral assessment in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced

behavioral interventions in consultation. 20 field hrs. Prerequisite: SPED 53030 and SPSY 67920/77920 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 77951 COGNITIVE ASSESSMENT OF CHILDREN IN SCHOOLS

Training and experience in administering, scoring and interpreting cognitive measures for children and adolescents and writing reports. 30 clinical/field hours. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 77955 INSTRUCTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS

Training in administration, scoring and interpretation of normative and non-normative measures of academic achievement instructional environment and writing psychoeducational and team reports. 25 clinical field hours. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 77960 INTERVENTIONS WITH CULTURALLY DIVERSE STUDENTS

Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

SPSY 77965 INSTRUCTIONAL INTERVENTIONS FOR SCHOOL PSYCHOLOGISTS

Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for Department-based academic referrals within a problem-solving model. Requires 25 clinical field hours. Prerequisite: SPSY 77955 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences



SPSY 77970 LEGAL, ETHICAL AND PROFESSIONAL ISSUES IN SCHOOL PSYCHOLOGY

Ethical, legal and professional issues of school psychologists and counselors will be explored. Considerations of law, regulations, ethical standards and codes of professional practice of related professional organizations will be addressed. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 77971 ISSUES AND APPROACHES IN SCHOOL PSYCHOLOGY

This course describes and illustrates contemporary elements and forces that impact professional service in school psychology practice. Students register for two consecutive semesters in conjunction with internship. Repeatable up to 6 hours. Prerequisite: Doctoral standing and permission.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Lifespan Development and Educational Sciences

SPSY 77972 SOCIAL-EMOTIONAL ASSESSMENT FOR SCHOOL PSYCHOLOGISTS

Training in administration, scoring and interpretation of techniques for assessment of social, emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Lifespan Development and Educational Sciences

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 77973 CONSULTATION IN THE HELPING PROFESSIONS

Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem-solving models and crisis consultation. 20 clinical/field hours. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Lifespan Development and Educational Sciences

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Lifespan Development and Educational Sciences

SPSY 77974 SOCIAL-EMOTIONAL INTERVENTIONS IN SCHOOL PSYCHOLOGY

Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for Department-based social and emotional referrals within an eco- behavioral problem-solving model. 25 clinical/field hours. Prerequisite: SPSY 77972 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 77980 INTEGRATING EXPERIENCE IN SCHOOL PSYCHOLOGY

This course requires student to research, study and develop expertise in a particular facet of school psychology and to present these findings at the conclusion of his/her training program. Restricted to students in school psychology Ed.S. program. 38 clinical field hours. Prerequisite: Doctoral standing and special approval.

2.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 77992 SPECIALIST INTERNSHIP IN SCHOOL PSYCHOLOGY

One academic year of field experience in Departments under supervision of university supervisor and certified school psychologist who is employed by school system. Restricted to Ed. S. Students in SPSY program. 100 clinical field hours per semester hour of credit. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing and special approval.

1.000 TO 6.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

SPSY 77995 SPECIAL TOPICS IN SCHOOL PSYCHOLOGY

Presentations of special interest to students. Offered irregularly. Topics will be announced in schedule of classes booklet.

Prerequisite: Doctoral standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 77996 INDIVIDUAL INVESTIGATION IN SCHOOL PSYCHOLOGY

Independent reading and/or research directed by a graduate faculty member. Prerequisite: Doctoral standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Lifespan Development and Educational Sciences

SPSY 77998 INDIVIDUAL RESEARCH IN SCHOOL PSYCHOLOGY

Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration. Repeated registration permitted. Prerequisite: Doctoral standing and special approval.

1.000 TO 9.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences

SPSY 80090 DOCTORAL RESIDENCY SEMINAR

Exploration of philosophical, definitional and attitudinal issues in the helping professions. Involvement in current activities of professional life through collaborative work with professors other students and practitioners. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Lifespan Development and Educational Sciences

SPSY 80192 CLINICAL SUPERVISION PRACTICUM

Provides for supervised experience in clinical supervision of graduate students in school psychology. Experiences include coordinating case intake and assessment planning, and providing feedback to graduate students on clinical reports and communication of results to clients parents. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing and special approval.

3.000 Credit hours



3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

SPSY 80199 DISSERTATION I

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Prerequisite:

Doctoral standing.

15.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Lifespan Development and Educational Sciences

SPSY 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all dissertation requirements are met.

Prerequisite: Doctoral standing and SPSY 80199.

15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Dissertation

Department: Lifespan Development and Educational Sciences

SPSY 87987 PROFESSIONAL SEMINAR IN SCHOOL PSYCHOLOGY

A professional seminar focused on the identity, history and development of school psychology with special emphasis on current professional issues. Prerequisite: Doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Lifespan Development and Educational Sciences

SPSY 87992 DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY

Professional service and field experience under the supervision of a licensed psychologist. Emphasis determined by setting. 150 clinical field hours per semester hour of credit. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned

"Department/agency" before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Doctoral standing and special approval.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Lifespan Development and Educational Sciences

SPSY 87998 RESEARCH SEMINAR IN SCHOOL PSYCHOLOGY

Selected research topics in school psychology. Significant research literature is reviewed; research design methods and issues are presented and small research projects are conducted. Prerequisite:

Doctoral standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Lifespan Development and Educational Sciences

Sport and Recreation Management (SRM)

SRM 53093 VARIABLE TITLE WORKSHOP IN EXERCISE, LEISURE AND SPORT

Workshop in exercise, leisure and sport studies topics vary. Repeated registration permitted. Maximum 4 hours may be applied to degree. Prerequisite: Graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Workshop

Department: Foundations, Leadership and Administration

SRM 55022 EVENT PLANNING AND PRODUCTION

Students will learn the proper planning process that all sport events undergo. Students will then apply these concepts in actual events that they develop and hold. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SRM 55023 MARKETING AND PROMOTIONS IN SPORT AND RECREATION

Analysis of marketing from a sport and recreation manager's perspective. Emphasis on marketing strategy and tactics in sport and recreation systems. Extensive use of case studies. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SRM 55024 SPORT IN GLOBAL PERSPECTIVE

This course is designed to encourage students to critically analyze how sport relates to general features of globalization and to provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and socio-spatial politics). The underlying assumption is that sport is part of a growing

network of global interdependencies that bind human beings together. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SRM 55026 SPORT AND THE MEDIA

Course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality and disability; an examination of the structure of sports journalism and production and an analysis of the role of mediated sport in our culture more generally. As such the roles of institutions, producers, texts and audiences and their relationships to each other are examined. Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SRM 56000 TOURISM DEVELOPMENT AND RECREATIONAL TRAVEL

Investigation of travel and tourism development using an interdisciplinary social science approach. Prerequisite: RPTM 36060. Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SRM 56001 PRINCIPLES AND METHODS OF COMMUNITY INCLUSION

Interdisciplinary approach to the principles and methods of designing an inclusive environment. Focus is on characteristics of disability groups and societal consideration to making adaptations and accommodations. Students complete a service learning component that focuses on inclusion of people with disabilities in community life. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SRM 56030 DYNAMICS OF LEISURE BEHAVIOR

Analysis of leisure behavior through examination of social-psychological theories and research. Prerequisite: RPTM 36040 and 36075; and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Foundations, Leadership and Administration



SRM 56040 THERAPEUTIC RECREATION PROGRAM TECHNIQUES

Intervention/facilitation techniques employed in therapeutic recreation practice. Integration of theory into program plans used in TR for treatment and leisure education services for people with illnesses or disabilities. . Prerequisite: RPTM 36080. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 56041 ADVANCED THERAPEUTIC RECREATION PROGRAM TECHNIQUES

Advanced intervention/facilitation techniques employed in therapeutic recreation practice. Professional issues related to therapeutic recreation practice. Prerequisite: SRM 56040. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 56060 ADMINISTRATION OF LEISURE SERVICES

Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns will be examined. Prerequisite: RPTM 36040, 36075, 36092 or 36192. Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 56070 PARK PLANNING

Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places. Prerequisite: RPTM 36040 and 36075; graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 56080 LEGAL ISSUES IN SPORT AND RECREATION

Designed to alert potential recreation and sport professionals to the litigious environment prevalent in the United States and increase awareness of their legal responsibility and risk management. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture

Department: Foundations, Leadership and Administration

SRM 63018 ETHICS IN EXERCISE, LEISURE AND SPORT

Examination of selected situations in exercise, leisure and sport from an ethical reasoning perspective. A problem-oriented case study approach based upon contemporary moral issues and moral theory. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 63095 RESEARCH SEMINAR

Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. Prerequisite: Graduate standing.
1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Foundations, Leadership and Administration

SRM 63096 INDIVIDUAL INVESTIGATION IN EXERCISE, LEISURE AND SPORT

Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration. Repeatable to 6 credit hours. Prerequisite: Graduate standing and special approval.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Foundations, Leadership and Administration

SRM 63098 RESEARCH

Research or individual investigation. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Foundations, Leadership and Administration

SRM 63195 SPECIAL TOPICS IN EXERCISE, LEISURE AND SPORT

Selected and varied topics of relevance in exercise, leisure and sport. Registration may be repeated. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 63199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester

distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Foundations, Leadership and Administration

SRM 63299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: SRM 63199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Foundations, Leadership and Administration

SRM 65006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT

A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY

Sociological analysis of sport from a theoretical and empirical perspective. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65021 ORGANIZATION/MANAGEMENT OF SPORTS PROGRAMS

A study of the pragmatic understanding necessary in the organization and management of a sports program at the high Department, college or professional level. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65031 SOCIAL PSYCHOLOGY OF SPORT AND RECREATION

Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture



Department: Foundations, Leadership and Administration

SRM 65033 LEGAL ISSUES IN SPORT AND RECREATION

Provides students with a basic understanding of tort, contract and constitutional law in relation to sport and leisure. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65034 CONTEMPORARY SPORT LAW

Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports. Prerequisite: SRM 65033 and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65036 SPORT IN HIGHER EDUCATION

Identification of contemporary problems and issues in collegiate sport, their history and the role of sport in colleges and universities now and in the future. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65038 SPORT PROMOTION AND FUNDRAISING

Analysis of contemporary sports promotions strategies, as well as promotion of fund raising tactics. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65039 FINANCIAL ASPECTS OF SPORT AND RECREATION

Review of basic accounting, sources and uses of funds, capital budgeting, leasing and investments as they apply in a sports and recreation context. Financial software used in the sport and recreation industry will be introduced. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65041 TOURISM AND HOSPITALITY REVIEW

Reviews academic tourism and hospitality literature to provide students with a theoretical and empirical understanding of the tourism phenomenon. Issues include tourist motivations; the social, cultural and environmental impacts of tourism; tourism and development; and the impact of hospitality services on tourism. Prerequisites: RPTM 46000 or ELS 56000; and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65042 LEADERSHIP OF SPORT AND RECREATION

Study of theoretical and applied constructs foundational to the leadership behavior applied to sport and recreation. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65045 SPORT MARKETING

Develops an understanding of strategic marketing concepts and principles as they apply to the context of sport and entertainment. Examines a variety of topics related to the marketing mix, consumer/fan behavior, research methodology, as well as explore sport, entertainment and business organization relationships. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65046 FACILITY MANAGEMENT AND OPERATIONS

Analysis of management competencies necessary to operate sport, recreation, convocation or convention facilities. Conceptual and technical aspects of planning and design introduced. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65047 GLOBAL ISSUES OF TOURISM TRADE

An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in

tourism policy making. The course has an emphasis on reading and discussion. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT

Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives will be examined. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65062 CONTEMPORARY ISSUES IN LEISURE AND RECREATION

Seminar to identify contemporary problems in recreation and leisure, and seek methods for their resolution. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65063 ADMINISTRATIVE PROBLEMS IN RECREATION AND LEISURE SERVICES

Special problems in recreation and leisure service agencies, legal powers and liability, departmental organization, financing, personnel policies and human resource development. Prerequisite: RPTM 46060 or SRM 56060. Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65064 CONCEPTS AND TECHNIQUES IN THERAPEUTIC RECREATION

Issues in the application of concepts in therapeutic recreation from a multidisciplinary perspective; study of evaluation and research. Prerequisite: RPTM 46041 or SRM 56041. Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65092 INTERNSHIP IN SPORT AND RECREATION MANAGEMENT

Field experience involving supervised contact with sport and recreation



administrators. Students will work as an understudy with these administrators in all phases of their positions. Repeated registration permitted. Prerequisite: Graduate standing and special approval. 2.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65292 INTERNSHIP IN LEISURE STUDIES

Field experience involving supervised contact with recreation and leisure professionals. Involves experience in all phases of agency administration. Repeated registration permitted. Prerequisite: Special approval and graduate standing. 1.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 65792 INTERNSHIP:SPORT STUDIES

Supervised field experience in a sport or physical education setting. 60 hours of involvement per credit. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned Department/agency before the first day of the semester in which student teaching/ internship will take place. Prerequisite: Special approval and graduate standing. 1.000 TO 4.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Foundations, Leadership and Administration

SRM 73018 ETHICS IN EXERCISE, LEISURE AND SPORT

Examination of selected situations in exercise, leisure and sport from an ethical reasoning perspective. A problem-oriented, case study approach based upon contemporary moral issues and moral theory. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 73095 RESEARCH SEMINAR

Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. Prerequisite: Doctoral standing. 1.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar

Department: Foundations, Leadership and Administration

SRM 75006 CONTEMPORARY ISSUES IN SPORT MANAGEMENT

A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 75008 SOCIOLOGY OF SPORT AND PHYSICAL ACTIVITY

Sociological analysis of sport from a theoretical and empirical perspective. Prerequisite: SRM 6/75006 and doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 75031 SOCIAL PSYCHOLOGY OF SPORT AND RECREATION

Psychological, social and developmental factors of participation and behavior in sport exercise and recreational activities. Theoretical and applied perspectives addressed. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 75034 CONTEMPORARY SPORT LAW

Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 75038 SPORT PROMOTION AND FUNDRAISING

Analysis of contemporary sports promotions strategies, as well as fund raising tactics. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

SRM 75061 PHILOSOPHICAL AND SOCIAL BASES OF LEISURE AND SPORT

Overview of philosophical and social foundations of leisure and sport.

Contemporary theories and perspectives will be examined. Prerequisite: Doctoral standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Foundations, Leadership and Administration

Summer Visual Communication Design (SVCD)

SVCD 45011 SUMMER DESIGN STUDIO

(Repeatable for a total of 16 credit hours). Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty. Prerequisite: none. 1.000 TO 4.000 Credit hours
7.500 TO 30.000 Lecture hours
12.500 TO 45.000 Other hours
Level: Undergraduate
Schedule Types: Lecture, Studio
Department: Visual Communication Design

SVCD 55011 SUMMER DESIGN STUDIO

(Repeatable for a total of 16 credit hours). Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty. Prerequisite: graduate standing. 1.000 TO 4.000 Credit hours
7.500 TO 30.000 Lecture hours
12.500 TO 45.000 Other hours
Level: Graduate
Schedule Types: Lecture, Studio
Department: Visual Communication Design

SVCD 65011 SUMMER DESIGN STUDIO

(Repeatable for a total of 16 credit hours). Summer course offerings investigating specialized areas of graphic design, illustration or photography taught primarily by guest faculty. Prerequisite: graduate standing. 1.000 TO 4.000 Credit hours
7.500 TO 30.000 Lecture hours
12.500 TO 45.000 Other hours
Level: Graduate
Schedule Types: Lecture, Studio
Department: Visual Communication Design

Technology (TECH)

TECH 10001 INFORMATION TECHNOLOGY

Introduction to the operation and use of computer systems in technology-related applications. Laboratory assignments include the use of microcomputers for solving technical problems. Prerequisite: None. 3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Technology

**TECH 11071 WOODS TECHNOLOGY I**

Provides experience in fundamental hand and machine processes in wood-fabrication. Projects are designed, planned and constructed by the student according to curricular needs and interests. Prerequisite: None.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Technology

TECH 11083 TECHNICAL DRAWING AND SKETCHING

State-of-the-art experiences and fundamentals of sketching, lettering, blueprint reading, orthographic projection, dimensioning, sectioning single and double auxiliaries, isometric, oblique, perspectives and fasteners. Prerequisite: None.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Technology

TECH 13580 ENGINEERING GRAPHICS I

Technique of engineering drawing, lettering, instrument use, freehand drawing, orthogonal projection, sections, single and double auxiliaries, dimensioning, screw threads, charts and graphs. Prerequisite: None.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Technology

TECH 20001 ENERGY/POWER

Study of basic thermodynamic laws and how they apply to the conversion and transfer of heat energy into useful power. Prerequisite: TECH 21021.

3.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

TECH 20002 MATERIALS AND PROCESSES

Study and practice addressing the nature of basic manufacturing materials and the processes by which they are converted into manufactured products. Includes laboratory experience. Prerequisite: None.

3.000 Credit hours

2.000 Lecture hours

4.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Technology

Course Attributes: TAG Engineering Technology

TECH 20004 FUNDAMENTALS OF ELECTRONIC CIRCUITS

Introduction to electronic circuits consisting of resistors, capacitors and inductors.

Calculation of voltages and currents in the circuits for the case of constant and time varying currents. Prerequisite: MATH 11010 and 11022. Corequisite: MATH 12002.

4.000 Credit hours

3.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Technology

Course Attributes: TAG Engineering

Technology

TECH 21021 SURVEY OF ELECTRICITY AND ELECTRONICS

Survey of DC and AC circuits, electronic devices, amplifiers, sensors and transducers, digital circuits, motors generators and controls. Includes laboratory. Not intended for industrial technology (INDT) majors. Corequisite: MATH 11022.

4.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Technology

TECH 21046 GRAPHIC COMMUNICATIONS TECHNOLOGY I

An orientation to layout, composition and press operations as applied to the graphic communications processes of lithography screen and relief printing. Prerequisite: None.

3.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

TECH 21071 CONSTRUCTION MATERIALS METHODS AND TECHNIQUES

Covers current construction materials and their applications in commercial and residential construction buildings.

Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 22095 SPECIAL TOPICS IN TECHNOLOGY

(repeated registration permitted) various special topics to be announced in the schedule of classes, offering current topics in technology based areas of study.

Prerequisite: Permission.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

TECH 22100 TRAINING TOPICS IN TECHNOLOGY

(repeated registration permitted) specialized instruction oriented primarily to the theoretical base and application of current technology developed by experts in

the specific technology. This course is repeatable as the specific topics will vary.

Prerequisite: Permission.

1.000 TO 4.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 22200 CONSTRUCTION DOCUMENT READING

An introductory course to construction document reading. Provides a basic working knowledge of construction mathematics, specifications, material submittal process, building codes and material take off. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 23200 ELECTRONIC CIRCUIT FABRICATION LABORATORY

Covers the common methods and items used in electronics to fabricate, repair and test electronic component connections and circuits. Topics include electrical safety, printed circuit board design and fabrication, soldering, wiring characteristics, cabling, wire connectors, splices, wire wrapping, crimping, network cable fabrication, fabrication and repair of fiber optic cables and connectors, and integrated circuit fabrication. Prerequisite: TECH 20004 or 21021.

1.000 Credit hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory

Department: Technology

TECH 23224 ELECTRICAL CIRCUITS II

Intermediate electric circuit analysis. Reactance, impedance, network theorems and analysis. Resonance in series and parallel circuits. Applications. Includes laboratory. Prerequisite: TECH 20004.

3.000 Credit hours

2.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Technology

TECH 23581 COMPUTER-AIDED ENGINEERING GRAPHICS

Study of working drawings, descriptive geometry, geometrical tolerancing, structural/weldments, cams, gears, piping and considerable time with the Hewlett Packard 900 CAD system. Prerequisites: TECH 10001 and TECH 13580.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 31000 CULTURAL DYNAMICS OF TECHNOLOGY

Study of technology and the forces it exerts upon society. Prerequisite: None.



3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology
Course Attributes: Diversity Course-Domestic, Writing Intensive Course

TECH 31010 ENGINEERING AND PROFESSIONAL ETHICS

Applications of codes of ethics in the engineering and technology professions reflective of social and moral responsibilities to the public, and accountability in engineering practice. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 31015 CONSTRUCTION TECHNOLOGY

Laboratory, lecture and field experience which relate to the construction industry and its relationship to our society. Prerequisite: ID 14512 or TECH 13580 or TECH 11083.
3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 31016 MANUFACTURING TECHNOLOGY

Classroom, laboratory and field experiences involving the major aspects of a manufacturing enterprise including product design, production financing and marketing. Prerequisite: TECH 10001 and TECH 13580 and TECH 20002.
3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 31020 AUTOMATED MANUFACTURING

Theory and operation of computer controlled machine tools, robots and processes. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 31023 CONSTRUCTION SURVEYING

Covers the study of surveying including field work with equipment such as transit, level and tape. Prerequisite: TECH 22200.
3.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 31032 POWER TECHNOLOGY

Principles of energy conversion and power application. Overview of basic heat engines, machines and transmission devices. Alternative energy systems and conservation techniques. Prerequisites: TECH 20001 and TECH 20004.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 31043 PRINCIPLES OF CONCRETE CONSTRUCTION

An introductory course on the use of concrete in the construction industry. Students will gain a basic understanding of the strength and behavior of reinforced concrete members and simple reinforced concrete structural systems. Prerequisite: TECH 21071.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 31044 CONSTRUCTION OCCUPATIONAL SAFETY AND HEALTH

Focuses on making the theories and principles of construction safety and health practical and useful in a real world setting. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 31047 GRAPHIC COMMUNICATIONS TECHNOLOGY II

Advanced course in graphic communications processes with emphasis on procedures involved in special effect lithographic techniques, multiple imposition, pin registration and production operations. Prerequisite: TECH 21046.
2.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 31055 PLASTICS TECHNOLOGY I

Design and development of ideas in plastics; study of the plastic industry, occupations, materials, products and processes. Prerequisite: Junior or senior standing.
1.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 31065 CAST METALS

Principles and processes of metal casting with a focus on current industrial practices. Includes laboratory experience with nonferrous metals and industrial tours. Prerequisite: TECH 20002.
3.000 Credit hours
5.000 Other hours

Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 31067 MACHINING TECHNOLOGY I

Lecture and laboratory experiences in basic machine tool principles and processes. Prerequisite: None.
3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 31071 WOODS TECHNOLOGY II

Emphasis on basic woodworking machinery processes, fundamental construction and materials. Project design and development. Prerequisite: TECH 11071.
2.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 31087 DESIGN FOR TECHNOLOGY

Design as creative process. Individual and group experiences in problem solving. Relevance to art industry and education. Prerequisite: none.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 32002 MATERIALS AND PROCESSES II

Advanced study and practice in materials and processes. Emphasis will be upon developing skills and knowledge in producing a product and conducting problem solving activities. Prerequisite: TECH 20002.
3.000 Credit hours
7.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 32100 FUNDAMENTALS OF RADIATION TECHNOLOGY

Study of the generation and application of radiation to everyday and industrial applications. Includes sound RF and microwaves light and ionizing radiation. Prerequisite: MATH 11002 and MATH 19002.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 32101 POLYMERS I

Description of various polymers, thermoplastics and thermosets. Processes used to produce products. Outline of polymer chemistry including methods of testing and identification. Prerequisite: None.
3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 32102 POLYMERS II

Comprehensive review of resin systems and fiber reinforcement for use in production of FRP products; fabrication procedures; comparative properties.
Prerequisite: TECH 32101.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 32105 CONSTRUCTION JOBSITE MANAGEMENT

Course concentrates on the procedures and methods that are used by the construction contractor during the construction and post-construction phases of a project. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 33010 COMPUTER HARDWARE

Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals, basic hardware, data busses and ports, hardware component packaging, auxiliary hardware components, computer assembly, basic hardware installation, configuration and troubleshooting. Prerequisite: junior standing.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 33016 PC/NETWORK ENGINEERING AND TROUBLESHOOTING

Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks are covered. Students learn communication protocols and network architecture. Two lectures and two labs a week. Prerequisite: EERT 22014 or TECH 33010.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 33031 PROGRAMMABLE LOGIC CONTROLLERS

An introduction to programmable logic controllers (PLCs) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces

(HMS). Prerequisites: TECH 10001 and TECH 21021.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 33033

HYDRAULICS/PNEUMATICS

Fluid properties, hydraulic design, viscosity, hydraulic components, pumps, systems and circuits, maintenance and safety, pneumatics, air systems control and design. Prerequisite: MATH 11022; and PHY 13001 or PHY 23101.
3.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Technology

TECH 33056 COOPERATIVE EDUCATION-PROFESSIONAL DEVELOPMENT

Supervised work-study experience in approved business or industrial environment relative to the student's major. 1 credit hour part-time (20-30 hrs/wk); 2 credit hours full-time work (more than 30 hrs/wk) for the duration of the semester. Repeatable to maximum of 4 hours. Prerequisites: sophomore standing and 2.25 GPA and special approval.
1.000 OR 2.000 Credit hours
1.000 OR 2.000 Other hours
Level: Undergraduate
Schedule Types: Field Experience
Department: Technology
Course Attributes: Writing Intensive Course

TECH 33095 SPECIAL TOPICS:APPLIED SCIENCE AND TECHNOLOGY

Special topics of immediate interest in applied science and technology. Repeated registration permitted. Prerequisite: Junior standing and special approval.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 33111 STRENGTH OF MATERIALS

An analytical study of the relaxation between the external forces applied to elastic materials and the resulting deformations and stresses. Prerequisite: PHY 13001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 33220 ELECTRONIC DEVICES

Introduction to electronic non-linear devices including, diodes, transistors, optoelectronic devices and operational amplifiers. Use and application of these devices in different types of application like rectifiers, amplifiers and linear integrated

circuits. Prerequisite: TECH 20004. Corequisite: TECH 23200.

4.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Technology

TECH 33222 DIGITAL DESIGN

Introduction to digital electronics systems and applications. Topics include number systems, logic gates, switching algebra, combinational and sequential logic circuit analysis, and minimization techniques. Includes laboratory. Prerequisite: TECH 20004 or TECH 21021.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Technology

TECH 33223 ELECTRONIC COMMUNICATION

Electronic circuits and systems with emphasis on their application in communications systems. Prerequisite: TECH 33220.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 33225 INDUSTRIAL CONTROL SYSTEMS

The application of electronics to the control of industrial machines and processes. Includes laboratory. Prerequisite: TECH 33220.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Technology

TECH 33363 METALLURGY AND MATERIALS SCIENCE

Scientific study of modern manufacturing materials (metals, plastics and ceramics) and the laboratory test methods used to determine their manufacturing specifications and properties. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 33580 ENGINEERING GRAPHICS FOR ELECTRONICS

Use of CAD techniques in the generation of electronic circuit schematics and related drawings. Includes the design and implementation of printed circuit boards. Includes laboratory. Prerequisite: TECH 13580 and TECH 33220.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours



Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Technology

TECH 33700 QUALITY TECHNIQUES

Introduction to quality management and the tools and techniques including the basic tools identified by ASQ (American Society for Quality) as well as an introduction to Lean and Six Sigma. Information presented helps prepare the student to qualify for the Quality Process Analyst Certification. Prerequisite: MATH 10005.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 33870 FACILITY DESIGN MATERIAL HNDLG

Provides students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for complete approach to facility design and material handling. Prerequisite: junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 34000 COMPUTER ANIMATION II

Continuation of the study and technology applications of computer animation with emphasis on camera usage and the production of a comprehensive animation project involving the animation thought process (ATP). Prerequisite: CADT 22004.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 34001 COMPUTER ANIMATION III

Continued study of practical technology applications of computer animation with emphasis on scripting code writing, systems line variables and fluent realism factors within the ATP. Prerequisite: TECH 34000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 34002 ADVANCED CAD II

Continuation of CADT 22000 with an emphasis on the use of a Parametric-based CAD software (PRO-ENGINEER) for the design and modeling of industrial products. Prerequisite: MERT 12001 and CADT 22000; or TECH 23581.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 34003 ANIMATION THEORY

A comprehensive course on the history and current status and future of animation featuring the masters of animation, their landmark achievements and the processes they unveiled. Claymation, Stop Motion, Anime, Commercial and Forensic animations will be covered. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 34004 TECHNOLOGY OF LIGHT, COLOR, DESIGN AND LAYOUT

A course dealing with the study of the technical principles and applications of light, color, design and layout to the production of computer animation for engineering materials and products. Prerequisite: CADT 22004.
2.000 Credit hours
2.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 36110 PRINCIPLES OF FRAUD EXAMINATION

Study of occupational fraud and abuse; its' detection and prevention within the realm of an enterprise. Prerequisite: ACTT 21000.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 36120 ETHICAL ISSUES RELATING TO FRAUD EXAMINATION

Understanding ethical dilemmas, issues and professionalism relating to fraud examination. Prerequisite: TECH 36110.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 36401 APPLICATIONS OF TECHNOLOGY MANAGEMENT SOFTWARE

Combination of computer and business applications for managing technology within an organization. Focus is on using emerging computer software programs for the enhancement of decision making. Course is 2 hours lecture, 1 hour lab. Prerequisite: BMRT 11000 and COMT 12000; or special approval of full-time Applied Business faculty.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 36410 SECURITY FOR BUSINESS STUDENTS

Concepts and principles of security and safety in industrial and commercial settings. Focus on executive oversight of corporate

security functions. Includes risk analysis, security surveys, emergency preparedness and security policies and procedures. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 36411 REQUIREMENTS ENGINEERING AND ANALYSIS

Describes requirements engineering concepts for practical systems. Topics include identifying stakeholders and how to work with them effectively, requirements elicitation techniques, requirements engineering in the Problem Domain, developing Use-Case scenarios, reference models, systems requirements specifications, validating and prototyping requirements and case study presentations by Industry SMEs. Some knowledge of a programming language or good analytical background is assumed. Prerequisite may be waived for students with industry experience in software development or consent from the instructor. Prerequisite: DSCI 15310 with a minimum grade of C (2.0).
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 36415 CUSTOMER SERVICE TECHNOLOGY

Analysis and definition of customer satisfaction with an emphasis on quality customer service that includes technique for assessing company service efforts and developing customer satisfaction programs. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 36420 PHYSICAL SECURITY

Elements of design, technology and procedures that deter, delay, detect and defeat criminal activity. Deployment and optional countermeasures. Budgeting based on risk analysis. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 36430 SECURITY MANAGEMENT

Principles of security and safety in private business and institutions. Emphasis on proprietary departments and security of those departments. Focus on need for proprietary security organization, internal controls, external threats and electronic devices. Examination of departmental policies and procedures. Prerequisite: Junior standing.
3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 36440 SECURITY INVESTIGATION

Addresses future of private security, conducting interviews and dealing with testimonial evidence. Following leads, collecting evidence, preserving crime scenes, use of investigative tools, surveillance techniques and report writing. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 36620 COORDINATING TECHNICAL PROJECTS

Organization and coordination of project-based management functions utilizing project management software to visualize what has been planned. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 41001 METHODS IN TECHNOLOGY EDUCATION

Methods of teaching curriculum development and evaluation which are unique to the profession of technology education. Prerequisite: Special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology
Course Attributes: Writing Intensive Course

TECH 41002 ORGANIZATION IN TECHNOLOGY EDUCATION

Principles and practices involved in housing, equipping organizing maintaining and operating industrial arts technology education courses. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 41040 CONSTRUCTION ESTIMATING I

Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Prerequisite: TECH 22200.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 41041 CONSTRUCTION ESTIMATING II

Examines putting costs to the project, finalizing the bid, incorporating the estimate into the schedule, buying out the project, bidding ethics and using computer spreadsheets including Excel to automate estimating functions. Prerequisite: TECH 41040.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 41051 FOUNDATIONS AND CONTEMPORARY THEORIES OF TECHNOLOGY EDUCATION

This course explores the history, contemporary theories and practices of technology education. Included are site visits to exemplary technology education programs. Prerequisite: None.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 41052 TECHNOLOGY AND ENGINEERING FOR K TO 8 STEM

Using discussion, laboratory experience and field experiences this course explores technology education as it relates to all content areas of the K-12 curriculum. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 41055 INDUSTRIAL PRACTICE

Practical experience in industry of cooperative work-study nature. Repeatable for a total of 8 hours. Prerequisite: Junior standing.
1.000 TO 8.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Technology

TECH 41093 VARIABLE TITLE WORKSHOP IN TECHNOLOGY

Specialized instructional unit oriented toward the application of current technology concepts. Repeat registration permitted. Prerequisite: None.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Technology

TECH 41096 INDIVIDUAL INVESTIGATION IN TECHNOLOGY EDUCATION

Individual investigation course. Repeatable for a total of 4 hours. Prerequisite: Special approval.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate

Schedule Types: Individual Investigation
Department: Technology

TECH 41196 INDIVIDUAL INVESTIGATION IN TECHNOLOGY EDUCATION

Individual investigation course. Repeatable for a total of 4 hours. Prerequisite: Special approval by department.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Technology

TECH 42100 TRAINING TOPICS IN TECHNOLOGY

(repeated registration permitted)
specialized advanced instruction oriented primarily to the theoretical base and application of current technology developed by experts in the specific technology. This course requires substantial base knowledge and is repeatable as the specific topics will vary. Prerequisite: Permission.
1.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 42105 CONSTRUCTION CONTRACTS

An introductory course on construction contracts and how they are used in the construction industry. Prerequisite: Junior or senior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 42107 CONSTRUCTION SCHEDULING

Covers the traditional theory on planning, scheduling and controlling construction projects. Current industry computer applications for scheduling will be utilized. Prerequisite: TECH 32105.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 42200 RADIATION PROCESSING OF MATERIALS

Description of the radiation sources used in radiation technology and the study of the effects of electrons and gamma rays on materials of technological interest. Experiments deal with the effects of radiation in different materials. Prerequisite: PHY 13002 or PHY 12202; and MATH 12002 or MATH 19002; and TECH 32100 and TECH 33363.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Technology



TECH 42300 RADIATION DETECTION TECHNOLOGY

Familiarize students with basic types of instrumentation used for the detection and measurement of ionizing radiation, including operation and applications. Lectures supplemented with laboratory exercises. Prerequisite: TECH 21021 or TECH 23224 or EERT 12001; and TECH 42200.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

TECH 42400 RADIATION DOSIMETRY AND SAFETY

Basic concepts of dosimetry and its units as applied to radiation technology, including theory of dosimeter response. Safety principles and practices followed in radiation environments, including terminology, policies and procedures to minimize exposure to radiation.

Prerequisite: TECH 42200.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 42500 LABORATORY IN RADIATION AND MATERIALS

Laboratory investigation into the effects of radiation on materials, including dosimeters. Methods employed include spectroscopy, thermal analysis, optical microscopy and mechanical properties. Prerequisite: TECH 42300 and TECH 42400.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

TECH 43000 ADVANCED ANIMATION AND GAME DESIGN

Covers the process of game conceptualization and development. Learning how to model low-polygon characters and environments for the real-time 3D games. Customizing game properties, characters, animations, and terrains for purposes of visualization and game development. Prerequisite: TECH 43003.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 43001 TECHNOLOGY OF MEDIA AND FILM PRODUCTION

A course dealing with the technical and business aspects of pre- and post production planning for multimedia video or film projects. Covers a systematic approach to content organization and development, scripting, visualization proposal development contracts, budgets and legal

issues. Prerequisite: TECH 34001 and TECH 34004.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 43002 GRAPHICS DESIGN TECHNOLOGY

A course of study in the technology of creating knowledge and effects using computer-graphics concepts to create photo-realistic composite images and to restore and enhance a wide array of images. Prerequisite: CADT 22004.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 43003 VIRTUAL REALITY AND GAME DESIGN

Covers the creation of interactive online multimedia presentations/portfolios and serves as an introduction to advanced 3D gaming environments for off-line distribution and presentation. Prerequisite: TECH 34000.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 43004 UNIX SCRIPTING WITH APPLICATIONS

A course in the use of UNIX scripting for animation and multimedia development. Prerequisite: COMT 21095 and TECH 43001.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 43026 MICROPROCESSOR SYSTEMS

Introduction to the architecture, operation and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals. Prerequisites: TECH 33222 and TECH 46330.

4.000 Credit hours

3.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Technology

TECH 43050 INVENTIVE PROBLEM SOLVING

Theory of Inventive Problem Solving, TRIZ, is a collection of powerful problem-solving tools for a broad range of inventive problems. Capstone web-based course for students finishing their bachelor's degree. Assists students in utilizing material learned in earlier courses to solve many real world

problems in multiple disciplines.

Prerequisite: junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 43060 MANAGEMENT OF TECHNOLOGY INNOVATION

Subjects covered in this course are case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical planning, technological forecasting, concept development and elements of patents. A project is included that utilizes TRIZ software and innovation model elements. Prerequisite: Junior or senior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 43080 INDUSTRIAL AND ENVIRONMENTAL SAFETY

Examines the occupational safety and health act and fundamentals of industrial safety programs. Prerequisite: None.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 43096 INDIVIDUAL INVESTIGATION IN APPLIED SCIENCE AND TECHNOLOGY

Work study of an individual nature on a topic in a field of applied science and technology. Prerequisite: Junior standing and special approval.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Technology

TECH 43132 MANUFACTURING ENGINEERING PROJECT

Problem selected by students and instructors to develop students in desired specialty, or strengthen students in lesser field or prepare students for specific employment. Prerequisite: Permission of instructor.

2.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Technology

TECH 43220 ELECTRICAL MACHINERY

Principles of operation and application of motors, generators, transformers and other magnetic devices; electrical power generation, distribution and use. Prerequisite: TECH 23224.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture



Department: Technology

TECH 43221 DIGITAL CONTROL SYSTEMS AND INSTRUMENTATION

Focuses on applications of instrumentation and control systems using computers and microcontrollers including sensors, transducers, instruments, data acquisition boards, software programs, signal conditioning and transmission methods.

Prerequisite: TECH 43026 and MATH 12003 and PHY 23102. Corequisite: TECH 33223.

4.000 Credit hours

3.000 Lecture hours

2.000 Lab hours

Level: Undergraduate

Schedule Types: Laboratory, Lecture

Department: Technology

TECH 43550 COMPUTER-AIDED MANUFACTURING

The application of computers to the preparation of machine tool control programs. Prerequisite: TECH 10001 and TECH 20002.

3.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

TECH 43580 COMPUTER-AIDED MACHINE DESIGN

Application of the principles of mechanics and strength of materials, with computer assistance to the design and selection of machine components under both static and dynamic loads. Prerequisites: TECH 10001 and TECH 33111 and TECH 34002 and MATH 12002 and PHY 13001.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 43700 COMPUTER INTEGRATED MANUFACTURING

Study of the computer integrated manufacturing system as it relates to product design, estimating inventory, machining and assembly, quality control and distribution. Prerequisite: TECH 43550.

3.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

TECH 43800 APPLIED ENGINEERING TECHNOLOGY SEMINAR

An individual or group project involving the solution of a problem through the application of technology. Prerequisite: Technology (TECH) major and senior standing.

2.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Technology

TECH 45092 AERONAUTICAL INTERNSHIP/COOPERATIVE EDUCATION

(repeatable for a total of 6 hours) work experience in aerospace/aviation industry or related activity, laboratory or student professional organization. Prerequisite: Permission.

1.000 TO 2.000 Credit hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Technology

TECH 46020 APPLICATIONS OF ARTIFICIAL INTELLIGENCE PRODUCTS

Examines AI techniques that can be used to enhance, replace or help build applications packages. Topics include expert systems, natural language interfaces. Prerequisite: COMT 21004 or MATH 43105.

3.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

TECH 46031 STUDENT TEACHING

Provides a 12 week student teaching experience in technology education program. All professional courses must be completed along with 75% of all technology courses and 100 hours of technology education program visits. Students are required to complete Bureau of Criminal Investigation and Identification (BCII) and Federal Bureau of Investigation (FBI) background checks and submit the results to authorized personnel at their assigned "Department/agency" before the first day of the semester in which student teaching/internship will take place. Prerequisite: Special approval by department. Corequisite: TECH 49525.

9.000 Credit hours

9.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Technology

TECH 46170 CASE STUDIES IN FRAUD EXAMINATION

Application of principles of fraud examination, detection and evaluation of recommended action plans to specific fraud cases. Prerequisite: TECH 36110 and TECH 36318.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 46191 SEMINAR IN FRAUD EXAMINATION

Capstone course for students studying fraud examination and its related areas. Students will be required to research, analyze and present current fraud issues. Prerequisite: TECH 46170 and special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate
Schedule Types: Seminar
Department: Technology

TECH 46295 SPECIAL TOPICS IN APPLIED BUSINESS

Specialized advance instruction oriented primarily to applied business topics. Topics will vary and will be announced as scheduled. Repeat registration permitted.

Prerequisite: Special approval of full time technology faculty or of professor teaching the course.

2.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 46330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY

This course will cover the concepts of object-oriented, event-driven programming with hands-on application of those concepts to solve engineering-related problems utilizing the current version of visual basic. Prerequisite: TECH 10001 and PHY 13001 and special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Technology

TECH 46409 STRATEGIC MANAGEMENT OF TECHNOLOGY AND INNOVATION

An examination using case studies and readings of the management of technology and innovation through perspectives at the product line, business unit and corporate levels. Prerequisite: BMRT 11009 or MIS 24163; and sophomore standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 46410 CRISIS AND DISASTER MANAGEMENT PLANNING

Addresses planning process for mitigation and recovery strategies for natural and man-made crisis and disasters. Includes risk assessment, incident management and planning evaluation. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Technology

TECH 46418 LABOR STUDIES IN TECHNOLOGY

This course will include the history of the labor movement, interrelationships of labor with business and industry, labor law, contemporary labor problems that emphasizes how unions are organized, contracts, arbitration and management issues. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours



Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 46420 LEGAL ISSUES IN SECURITY

Survey of laws applicable to security risks including torts, labor, employment, criminal and constitutional issues. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 47200 SYSTEMS ENGINEERING

Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods, and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system. Prerequisite: junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 49525 INQUIRY INTO PROFESSIONAL PRACTICE

Seminar during student teaching to explore issues and techniques appropriate to teaching technology education. Corequisite: TECH 46031.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Technology

TECH 50000 QUALITY STANDARDS

This course introduces students to issues in quality standards, quality assurance and statistical inference in applied technology and process control. Topics include systems reliability, quality control, SPC, control charts, principles and methods of statistical analysis and prediction, and hypothesis testing. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 51001 METHODS IN TECHNOLOGY EDUCATION

Methods of teaching curriculum development and evaluation which are unique to the profession of technology education. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 51002 ORGANIZATION IN TECHNOLOGY EDUCATION

Principles and practices involved in curriculum and facility design appropriate for technology education including equipment maintenance. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 51051 FOUNDATIONS AND CONTEMPORARY THEORIES OF TECHNOLOGY EDUCATION

This course explores the history, contemporary theories and practices of technology education. Included are site visits to exemplary technology education programs. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 51052 TECHNOLOGY AND ENGINEERING FOR K TO 8 STEM

Using discussion, laboratory experience and field experiences this course explores technology education as it relates to all content areas of the K-12 curriculum. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 51055 INDUSTRIAL PRACTICE

Practical experience in industry of cooperative work-study nature. Not available for persons who have taken TECH 33056. Prerequisite: Graduate standing and special approval.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Technology

TECH 51093 VARIABLE TITLE WORKSHOP IN TECHNOLOGY

Specialized instructional unit oriented toward the application of current technology concepts. Repeat registration permitted. Prerequisite: Graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Technology

TECH 52200 RADIATION PROCESSING OF MATERIALS

Description of the radiation sources used in radiation technology and the study of the

effects of electrons and gamma rays on materials of technological interest. Experiments deal with the effects of radiation in different materials. Prerequisite: Graduate standing. PHY 13002 or PHY 12202; and MATH 12002 or MATH 19002; and TECH 32100 and TECH 33363.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 53026 INTRODUCTION TO MICROPROCESSORS

Introduction to the architecture, operation and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals. Prerequisites: TECH 33222 and 46330.
4.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Technology

TECH 53221 DIGITAL CONTROL SYSTEMS AND INSTRUMENTATION

Focuses on applications of instrumentation and control systems using computers and microcontrollers including sensors, transducers, instruments, data acquisition boards, software programs, signal conditioning and transmission methods. Prerequisites: TECH 33223; and TECH 43026 or 53026; and graduate standing.
4.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Technology

TECH 53550 COMPUTER-AIDED MANUFACTURING

The application of computers to the preparation of machine tool control programs, rapid prototyping and robotic control. Two hours lecture and two hours lab. Prerequisite: TECH 23581 and graduate standing.
3.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 53700 COMPUTER INTEGRATED MANUFACTURING

The study of computer integrated manufacturing as system control, product design, machining, assembly, material logistics, quality, information usage and system integration relates to it. Prerequisite: TECH 31020 and TECH 53550 and graduate standing.
3.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

**TECH 53800 APPLIED ENGINEERING TECHNOLOGY SEMINAR**

An individual or group project involving the solution of a problem through the application of technology. Prerequisite: Special approval and graduate standing. 2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Technology

TECH 55551 INTRODUCTION TO NANOTECHNOLOGY

Provides an in-depth overview of the fundamentals of nanoscience and nanotechnology. Includes a survey of developments within the breadth of the nanotechnology in various fields such as electronics, materials, energy, and biomedical science, etc. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 56321 WEB DATABASE INTEGRATION

Laboratory course focused on integrating data sources into web sites. Current topics include server-side processing principles, Web forms, database programming objects and structured query language. Prerequisite: COMT 21005 and COMT 21036 and graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 56330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY

This course will cover the concepts of object-oriented, event-driven programming with hands-on application of those concepts to solve engineering-related problems, utilizing the current version of visual basic. Prerequisite: TECH 10001 and MATH 11011 and PHY 13001 and special approval and graduate standing. 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 57000 SUSTAINABLE SYSTEMS AND TECHNOLOGY

Introduction to the fundamental concepts and principles of sustainability, sustainable technologies and sustainable systems. Provides students with an understanding of the basic principles and key issues of environmental, social and economic sustainability. Closely examines sustainability as it applies to the relationships among human beings, technology and the environment, with a special emphasis on sustainability in the context of "meeting humanity's current

needs." Also stresses the ethics and importance of sustainability and the use of sustainable systems. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 57010 ETHICS, TECHNOLOGY AND THE ENVIRONMENT

Explores the fundamental issues of the interconnections between human beings and the environment, with an emphasis on the ethics and the importance of the sustainability. Takes an in-depth look at basic environmental concepts, ethics and values, as they relate to a wide range of practical subject matters, including technology, from global and national perspectives. Provides an in-depth look at sustainable systems and the ethical issues associated with sustainability as it relates to technology by focusing on common and future impacts as they apply to ethics, values and justice. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 57200 SYSTEMS ENGINEERING

Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and the development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 57210 SUSTAINABLE ENERGY I

A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of presents U.S. and global

energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 57211 SUSTAINABLE ENERGY II

An in-depth study of the analysis, selection, and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic, and environmental impact associated with the development, implementation, and use of various forms of energy. Prerequisite: graduate standing and TECH 57210. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 60000 PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT

The planning, organizing, directing and controlling of company technology resources for relatively short term objectives. Students will also learn to make application of current projects. Prerequisite: Graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 60001 QUANTITATIVE METHODS IN TECHNOLOGY

Descriptive and inferential statistics used in technology and engineering. Emphasis is on the methods of analysis and the interpretation of data associated with research and development in technological and engineering environments. Course topics include representation of data, descriptive statistics, probability and probability distributions, inferential statistics, statistical design, and the analysis of experiments. No previous familiarity with probability or statistics is assumed. The ability to utilize basic algebra is required. Prerequisite: graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology



TECH 60003 SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT

Principles and concepts of six-sigma to improve organizational efficiency, effectiveness and productivity by improving quality, reducing waste, defects and failures. Prerequisite: TECH 50000 and 60001; and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 60078 RESEARCH METHODS IN TECHNOLOGY

Research techniques for the technologist. Methods for designing, conducting, analyzing and interpreting results of technological research. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 61000 INDUSTRIAL TECHNOLOGY EDUCATION

This course provides students with an understanding of the rationale and issues related to developing the industrial technology education program. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 61001 ORGANIZATION AND ADMINISTRATION OF INDUSTRIAL EDUCATION

Strategies for organizing and administering industrial education laboratory facilities to accommodate contemporary curriculum and instructional techniques. Prerequisite: Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 61006 INSTRUCTIONAL STRATEGIES FOR THE MULTIPLE ACTIVITY LABORATORY

Extensive participation and practice with instructional strategies for the multiple activity industrial arts laboratory. Survey of instructional styles, classroom and laboratory settings, and student sub-populations. Prerequisite: Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 61051 TECHNOLOGY EDUCATION FOR THE ELEMENTARY SCHOOL

The study of nature and purposes of technology education for elementary school and its relationships to general education. Prerequisite: Graduate standing.
2.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 61095 SPECIAL TOPICS IN TECHNOLOGY

Study of special topics in technology including technological tours offered irregularly as interest and opportunities permit. When offered contact College of Technology office for details. Prerequisite: Graduate standing.
1.000 TO 4.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 61098 RESEARCH

Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if department approves. Repeated registration permitted. Prerequisite: Graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Technology

TECH 61199 THESIS I

Thesis option student must register for a total of 6 hours, 2 to 6 in a single semester or to be distributed over several semesters if desired. Prerequisite: Advisor's special approval and graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Technology

TECH 61299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: TECH 61199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Technology

TECH 62001 CONTROL THEORY

Automatic control of electro-mechanical, pneumatic and hydraulic systems using mathematical models. Discussion of system stability and classical root locus. Prerequisite: PHY 32551 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 62301 ELECTRONIC COMMUNICATION SYSTEM

Course examines the key concepts in electronic communication and teaches basic communication tools, AM and FM modulation/transmission, communication techniques, network and digital communication, wave propagation, antennas, waveguides, radar, laser, microwave. Prerequisite: Graduate standing and instructor's special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 62302 FIBER OPTICS

Course examines optical fibers, Maxwell's equation, Raman and Brillouin scattering, analog/digital and optical transmitters/receivers/amplifiers, RZ, NRZ modulation codes, dispersion management, coherent lightwave systems, multichannel systems. Prerequisite: Graduate standing and TECH 33223 and instructor's special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 62396 INDIVIDUAL INVESTIGATION IN ELECTRONIC TECHNOLOGY

Individual investigation of a student-selected topic oriented toward the technical aspects of electronics. Prerequisite: TECH 53221 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Technology

TECH 63010 COMPUTER HARDWARE

Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals, basic hardware, data buses and ports, hardware component packaging, auxiliary hardware components, and computer assembly, basic hardware installation, configuration and troubleshooting. Prerequisite: graduate standing.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 63020 FIBER OPTIC SYSTEMS

Principles and characteristics of fiber optics, fiber optic system components and applications of fiber optics in electronic communication systems. Prerequisites: TECH 33220 and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate



Schedule Types: Lecture
Department: Technology

TECH 63040 ELECTRONIC COMMUNICATIONS

Study of electronic communications systems fundamentals, characteristics, design considerations and implementation. Topics include signal modulation and demodulation, multiplexing, noise, transmitters, receivers, signal propagation, digital communications, transmission lines, antennas and practical applications. Prerequisites: TECH 33223 and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 63050 TRIZ-THEORY OF INVENTIVE PROBLEM SOLVING

Theory of Inventive Problem Solving, TRIZ, is a collection of powerful problem-solving tools for a broad range of inventive problems. The theory originated in Russia by the study of over 2 million patents. Web-based capstone for students finishing their master's degree. Students utilize material learned in earlier courses to solve real world problems in multiple disciplines. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 63060 MANAGEMENT OF TECHNOLOGY INNOVATION

Subjects covered in this course include: case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical planning, technological forecasting, concept development and elements of patents. A project is included that utilizes TRIZ software and innovation model elements. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 63070 COMPUTER HARDWARE DESIGN AND INTEGRATION

In-depth study of personal computer (PC) and computer networking hardware. Topics include PC design, basic and auxiliary PC hardware components, PC assembly, PC upgrade and optimization, and PC repair, diagnosis and troubleshooting. Additional topics include computer networking hardware, network architecture, network communication protocols, and network installation, configuration and maintenance. Includes laboratory. Prerequisite: EERT 22014 or TECH 33010; and graduate standing.

3.000 Credit hours
2.000 Lecture hours

2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 63100 COMPUTER-AIDED DESIGN

Study of modern industrial practice using computers in advanced graphics, design and analysis including geometric dimensioning and tolerancing, parametric design, solid modeling and finite element analysis. Two hours lecture and two hours lab. Prerequisite: TECH 23581 and graduate standing.

3.000 Credit hours
1.000 Lecture hours
3.000 Lab hours
Level: Graduate
Schedule Types: Laboratory, Lecture
Department: Technology

TECH 63200 COMPUTER-CONTROLLED SYSTEMS

An overview of modern computer control systems in manufacturing. Prerequisite: TECH 4/53221 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Technology

TECH 63496 INDIVIDUAL INVESTIGATION IN ENERGY/POWER TECHNOLOGY

Individual investigation of selected topics within the energy/power technology systems. Prerequisite: TECH 31032 and graduate standing.

2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Technology

TECH 63870 FACILITY DESIGN AND MATERIAL HANDLING

Intended to provide students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for a complete approach to facility design and material handling. Prerequisite: graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 64010 CONNECTIVITY AND INTEROPERABILITY IN INDUSTRY

This course focuses on integrating and administering multiple systems in an industrial environment. Two-and-a-half-hour lecture and 30-minute lab weekly. Prerequisite: TECH 46311 and graduate standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 64011 TECHNICAL PROGRAMMING

This course will focus on writing programs to gather data from industrial devices and provide those data to information systems. Two and one half hours lecture and one half hour lab. Prerequisite: TECH 46008 and graduate standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 64012 INFORMATION TECHNOLOGY AND AUTOMATION IN INDUSTRY

This course will focus on developing systems that analyze and automate industrial processes and provide decision support. Two and one half hours lecture and one half hour lab. Prerequisite: Special approval and graduate standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 64095 SPECIAL TOPICS IN COMPUTER TECHNOLOGY

Study of various topics that focus on current computer technologies. Repeatable registration. Prerequisite: Graduate standing.

1.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 64396 INDIVIDUAL INVESTIGATION IN COMMUNICATION TECHNOLOGY

Independent research consisting of a problem statement followed by literature search and application of an industrial practice. A proposal must be developed and a written paper project presented to faculty and industrial representatives. Prerequisite: Special approval and graduate standing.

2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Technology

TECH 65400 EVALUATING QUALITY SYSTEM THROUGH PROCESS CONTROL

Evaluating industrial quality through statistical process control. Methods to produce design process control and process capability are analyzed and evaluated for industrial quality control. Use of inspection equipment and assurance of receiving fabricating and shipping acceptable materials products and systems. Scientific management. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate



Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 65500 QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY

Tools and techniques for increasing industrial productivity through total quality management. Productivity improvement techniques involving human, technology, material, product and processes, utilizing value engineering, analytical models and scientific management tools in high-technology environment. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 65550 DESIGN AND ANALYSIS OF EXPERIMENTS IN TECHNOLOGY

Introduces planning and conducting experiments, as well as analyzing the resulting data using statistical techniques to obtain valid and objective conclusions. Also focuses on experiments performed in areas such as product design, manufacturing process development and process improvement. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 65700 APPLIED RELIABILITY ENGINEERING

Designed to provide technical managers, applied engineers, technologists and manufacturing personnel practical working knowledge of reliability measurement and testing. Concepts of reliability engineering are analyzed to determine failure rates for various types of destructive and nondestructive testing. Prerequisite: TECH 65400 and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 65800 BURN-IN/STRESS TESTING FOR RELIABILITY

Comprehensive course on reliability testing to analyze and establish reliability standards for components, products and systems. Specific emphasis on burn-in and stress testing procedures to perform effective reliability statistical calculations will be the major focus of the course. Prerequisite: TECH 65700 and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Technology

TECH 66380 ADVANCED NETWORKING

Provides student with experience in fundamental and advanced computer

networking techniques including network architectures, LAN systems, network security, and network management and administration. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 66382 NETWORK SECURITY

Provides student with experience in fundamental and advanced computer networking techniques including network architectures, LAN systems, network security, and network management and administration. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 66384 COMPUTER FORENSICS

Provides students with experience in proper computer forensic techniques including incident response, forensic preparation, and data recovery and analysis. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 66596 INDIVIDUAL INVESTIGATION IN MATERIALS TECHNOLOGY

Research directed toward the study and application of metallic and nonmetallic materials. Prerequisite: TECH 20002 or TECH 33363 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Technology

TECH 66796 INDIVIDUAL INVESTIGATION IN INDUSTRIAL PROCESSES

Individual investigation of a student-selected topic oriented towards industrial/manufacturing processes. Prerequisite: TECH 20002 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Technology

TECH 67220 LIFE CYCLE DESIGN I

An in-depth investigation of Life Cycle Design of sustainable systems. Explores the cradle to cradle path of products with an emphasis on system Life Cycle stages and processes from a sustainability perspective. Examines how environmentally conscious system design can be accomplished by considering the environmental impact of technology and engineering as the part of

the sustainable design process. Includes the study of sustainable development with respect to Green Technologies, hazardous materials and processes and reducing the environmental impact of product development and utilization. Also includes an introduction to Life Cycle Assessment and various Environmental and Life Cycle standards. Prerequisite: graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 67221 LIFE CYCLE DESIGN II

An in-depth study of environmental performance, environmentally conscious design and sustainable development. Focuses on Life Cycle Analysis and Assessment as a means to determine the potential economic, environmental, and ecological impact of products, processes, and activities across their entire life cycle. Takes a close look at the beneficial and detrimental effects of various technologies, materials, products and processes with special attention to the reduction of harmful effects to human beings, the ecosystem, and the environment. Covers the analysis and assessment of energy consumption, natural resource depletion, and environmental degradation, and ways to minimize detrimental effects on the environment. Includes the use of various life cycle engineering and assessment processes, models and analytical tools to identify, evaluate, and compare the environmental consequences associated with various products/activities, across a wide range of impact categories, to assist in design and decision making. Prerequisite: graduate standing and TECH 67220.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 67320 APPLIED SUSTAINABILITY IN CONSTRUCTION MANAGEMENT

Investigation of strategies and methods used by construction managers and others to assist in developing sustainable built environments. Takes a close look at standards for environmentally sustainable construction and at the application of Best Management Practices for construction activities. Focus is on LEED Certification, International Standards on Environmental Management Systems, and other established criteria, guidelines, standards, and tools associated with Green Building. Provides an in-depth discussion and practical application of LEED assessment, guidelines and standards for various building sectors. Includes a major individual design project/case study involving research in green construction and design on a particular construction project, along with the application of LEED guidelines, assessment and methods to the project. Prerequisite: graduate standing and special approval.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Technology

TECH 67496 INDIVIDUAL INVESTIGATION IN CONSTRUCTION TECHNOLOGY

Provides advanced work in a selected investigation in one or more of the many areas of construction technology. In some instances an introduction to construction technology is considered depending upon student needs. "IP" permissible.

Prerequisite: Special approval and graduate standing.

2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Technology

TECH 67596 INDIVIDUAL INVESTIGATION IN MANUFACTURING TECHNOLOGY

Independent study related to manufacturing industries. The study may include the development of a product for manufacture (or service) or the in depth examination of an element of manufacturing. Prerequisite: Graduate standing.

2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Technology

TECH 68196 INDIVIDUAL INVESTIGATION IN ENGINEERING GRAPHICS

Investigation of selected topics within engineering graphics including computer-aided design. Prerequisite: TECH 31087 and graduate standing.

2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Technology

TECH 68796 INDIVIDUAL INVESTIGATION IN INDUSTRIAL TECHNOLOGY SYSTEMS DESIGN

The study of two-and three dimensional design as related to manufacturing construction communication and energy power including patents creativity and problem solving approaches. Prerequisite: Graduate standing.

2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Technology

Theatre (THEA)

THEA 11000 THE ART OF THE THEATRE
Using the life-centered nature of theatre as a medium of analysis, this course is designed to develop critically engaged audience members who are aware of the

impact, significance and historical relevance of the interconnection between culture and theatre performance.

Prerequisite: None.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: Diversity Course-Global, Kent Core-Fine Arts, Transfer Module-Fine Arts

THEA 11303 THE ART OF ACTING

General introduction to acting: the actor's instrument, sensory awareness, personal and group response, objectives and tactics. Basic scene work. Prerequisite: Special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: TAG Arts/Humanities

THEA 11522 INTRODUCTORY LIGHTING

An introduction to the art of lighting design, historical and technical perspectives.

Emphasis on principles of design within a collaborative process. Two lecture hours plus two lab hours per week. Prerequisite: special approval.

3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Theatre and Dance

THEA 11524 INTRODUCTORY COSTUMING

Principles, theories and basic skills of costume design and technology. Emphasis on aesthetics, the design process, fabric, construction techniques and craft materials. Two lecture hours plus two lab hours per week. Prerequisite: special approval.

3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Theatre and Dance

THEA 11622 INTRODUCTORY SCENERY

Principles, theories and basic skills of scenic design and technology. Emphasis on design elements, process of applied construction skills. Two lecture hours plus two lab hours per week. Prerequisite: special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Theatre and Dance
Course Attributes: TAG Arts/Humanities

THEA 21016 MAKEUP FOR STAGE AND SCREEN

Study of stage, TV and photographic makeup techniques and materials. Four lecture demonstration laboratory hours per

week; special projects as assigned.

Prerequisite: Special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 21095 SPECIAL TOPICS IN THEATRE

Offered irregularly when unusual recourses permit a topic different from existing courses. Topic will be announced when scheduled. Repeated registration permitted.

Prerequisite: special approval.

1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 21111 SCRIPT ANALYSIS

Principles, theories and techniques of play script analysis for theatrical production.

Prerequisite: THEA 11000.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: TAG Arts/Humanities

THEA 21201 INTRODUCTION TO AMERICAN MUSICAL THEATRE

The evolution of the American musical from comic opera, European operetta and African American jazz to today's commercial Broadway stage. Students engage in the traditions, identity, and socio-economic development of the quintessential American art form: Musical Theatre.

Prerequisite: none.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 21303 ACTING PROCESS

Fundamentals of naturalistic acting and interaction; development of spontaneity, believability and a sense of truth; game playing and basic stage technique.

Prerequisites: special approval.

3.000 Credit hours
2.000 Lecture hours
1.000 Lab hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 21306 MUSICAL THEATRE PERFORMANCE I

Performance-oriented class that will focus on techniques and styles of performance in musical theatre and cabaret from Gilbert and Sullivan to present. Repeatable for up to 12 hours. Prerequisite: Musical Theatre major.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance



THEA 21501 SOPHOMORE PORTFOLIO REVIEW

Preparation and review of a portfolio of work, judged by the design technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA design technology program. Prerequisite: special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Theatre and Dance

THEA 21521 THEATRICAL DRAFTING

Drafting techniques for all design/technology students. Includes plans elevations sections detailed drawings light plots. Prerequisite: THEA 11622 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 21621 SCENE PAINTING

Techniques of scene painting; emphasis on a variety of techniques through practical projects. Prerequisite: THEA 11622 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 21700 MOVEMENT I

Beginning exploration of technical skills emphasizing the physical components of expressive action through integration of breath, text and body conditioning.

Prerequisite: special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Theatre and Dance

THEA 21800 VOICE I

Breathing, physical alignment, sound and text explorations designed to develop relaxed, free and fully connected voice production for the actor. Proper use and care of the voice. Prerequisite: special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Theatre and Dance

THEA 21892 ENTERTAINMENT ARTS AND TECHNOLOGY INTERNSHIP I

Intensive professional experience in aspects of entertainment arts and technologies. Repeatable up to 10 hours. Prerequisite: Sophomore standing and special approval.

5.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 22092 PRACTICUM I:DESIGN/TECH

Practical experience in theatre production under faculty supervision. Available for lower-division students only. Required of all theatre majors. Repeatable. Prerequisite: Freshmen or sophomores only and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Practicum

Department: Theatre and Dance

Course Attributes: TAG Arts/Humanities

THEA 22192 PRACTICUM I:PERFORMANCE

Practical experience in theatre performance under faculty supervision. Available for lower division students only. Required of all theatre majors. Repeatable. Prerequisite: Freshmen or sophomores only and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Practicum

Department: Theatre and Dance

Course Attributes: TAG Arts/Humanities

THEA 22292 PRACTICUM I:THEATRE MANAGEMENT

Practical experience in theatre management under faculty supervision. Repeatable for a total of 12 hours. Prerequisite: Freshmen or sophomores only and special approval.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 31112 HISTORY OF THEATRE AND DRAMA I

Theatre history and drama in Europe from antiquity through the renaissance.

Prerequisite: THEA 21111, junior standing and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 31113 HISTORY OF THEATRE AND DRAMA II

Theatre history and drama in Europe and the United States from 1660 to 1900.

Prerequisite: special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 31114 HISTORY OF THEATRE AND DRAMA III

Theatre history and drama in Europe and the United States from 1900 to the present. Prerequisite: special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 31303 CHARACTER AND SCENE STUDY I

The development of character in the realistic scene. Prerequisite: THEA 21303 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 31304 CHARACTER AND SCENE STUDY II

Further character and scene exploration; spontaneity and creative choice making. Prerequisite: THEA 31303 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 31401 DIRECTING

Theoretical and practical work in the process of play direction; the director's mission; play analysis and design collaboration; the rehearsal process. Prerequisite: THEA 11303 and THEA 21111 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 31501 JUNIOR PORTFOLIO REVIEW

Review of a portfolio of theatre and related work, and a review of the student's academic progress and coursework judged by the design/technology faculty at the beginning of the spring semester. Student must pass to remain in the BFA Design Technology program. Prerequisite: Junior standing and BFA design/technology student and special approval.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Theatre and Dance

THEA 31522 LIGHTING DESIGN

Exploration of the tools of the lighting designer applied to design choices; frequent paper design projects.

Prerequisite: THEA 11522 and special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 31524 COSTUME DESIGN

Theory and practice of costume design. Emphasis on play text analysis, formation of concepts, use of design elements and principles, period styles. Prerequisite: THEA 11524 and special approval.

3.000 Credit hours



3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 31525 COSTUME TECHNOLOGY

Basic patterning and construction techniques used in theatrical costuming; emphasis on flat and draped patterning. Prerequisite: THEA 11524 and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 31560 SCENIC TECHNOLOGY

Basic history, theory and application of theatrical practice in scenery properties and electrics. Three lecture hours per week and lab arranged. Prerequisite: THEA 11622 and THEA 21521 and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 31622 SCENE DESIGN

Theory and practice of scene design; emphasis on script analysis, formation of concepts, use of design elements and principles in period styles and genres. Prerequisite: THEA 11622 and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 31701 MOVEMENT II

Development of movement exploration and improvisation skills which focus on physical relationships in performance and utilize the components of energy, space and time. Prerequisites: THEA 11303 or 21306; and special approval.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 31801 VOICE II

Continuation of Voice I. Explorations involve various texts and incorporation of voice principles at a more detailed level. Prerequisites: THEA 21301 and THEA 21800 and special approval.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 41017 READER'S THEATRE

Theory and practice of group interpretation through the medium of Readers Theatre; selection, adaptation and performance techniques. Three lecture/laboratory hours per week. Prerequisite: THEA 21017.

2.000 Credit hours

3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41026 PLAYWRITING

Principles underlying playwriting for the contemporary theatre; analysis of short play form. Repeatable for a total of 6 hours. Prerequisite: THEA 21111 and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: Writing Intensive Course

THEA 41027 ADVANCED PLAYWRITING

Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition. Repeatable for a total of 6 hours.

Prerequisites: THEA 41026 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41093 VARIABLE TITLE WORKSHOP IN THEATRE

Prerequisite: Special approval.

1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Theatre and Dance

THEA 41095 SPECIAL TOPICS IN THEATRE

(repeated registration permitted) offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled.

Prerequisite: Permission.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41096 INDEPENDENT STUDY IN THEATRE

(repeatable for a total of 6 hours) selected research topics in theatre; to be elected only after all coursework in study area completed. Prerequisite: Permission.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Theatre and Dance

THEA 41113 THEATRE IN A MULTICULTURAL AMERICA

A study of theatre and drama in the Native American, Hispanic-American, African-American and Asian-American communities in the United States from 1980 to the present. Prerequisite: Special approval.

3.000 Credit hours
3.000 Lecture hours

Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: Diversity Course-Domestic

THEA 41114 GAY AND LESBIAN THEATRE

Studies of how the gay and lesbian community has been represented in theatre. Frameworks will include the history of the community, political issues, identity questions and gender theory. Prerequisite: Junior standing.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: Diversity Course-Domestic

THEA 41133 THEATRE AND DRAMA IN AMERICA I

History of theatre and drama in America from the beginning to c. 1900. Prerequisite: special approval of instructor required.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41134 THEATRE AND DRAMA IN AMERICA II

The history of theatre and drama in America from c. 1900 to the present. Prerequisite: special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41140 AMERICAN MUSICAL THEATRE HISTORY

Comprehensively examines the history of American musical theater and incorporates the exploration of musical literature in production and performance. Prerequisites: junior standing; and theatre major.

3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: Writing Intensive Course

THEA 41191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY/LITERATURE/THEORY

Seminar in theatre history and literature providing an in-depth focus on selected topics such as: African-American theatre, women in theatre, politics and theatre, theatre in a multicultural society, costume history on stage/screen. Prerequisite: THEA 31112.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Theatre and Dance



THEA 41303 ACTING FOUNDATIONS I/STANISLAVSKI AND MICHAEL CHEKHOV

The Stanislavski and Michael Chekhov Techniques: A thorough exploration of Stanislavski's 'Method of Physical Action,' and the internalization of Michael Chekhov's technique including 'atmosphere,' 'psychological gesture,' 'qualities of movement.' Taught in the same semester as THEA 41304. Prerequisite: THEA 31303.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 41304 ACTING II-SCENE STUDY-MODERN AMERICAN REALISM

The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others. Prerequisite: THEA 41303.
3.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 41305 PROFESSIONAL ASPECTS: PERFORMANCE

A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered: pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY

A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized. Prerequisite: Junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41307 MUSICAL THEATRE PERFORMANCE II

Advanced work in musical theatre performance techniques for junior- and senior-level students. Course content includes selecting appropriate musical theatre audition material and developing contrasting selections from the musical theatre repertory. Preparation for musical theatre auditions is included. Prerequisites: THEA 21306 and special approval.
3.000 Credit hours

3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 41401 ADVANCED DIRECTING

Advanced work in directing for the theatre. Topics include the director as creative/interpretative artist and the director and the actor; students direct individual projects. Prerequisites: THEA 11303 and THEA 31401 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41501 SENIOR PORTFOLIO REVIEW

Review of a portfolio of theatre and related work, and a review of the student's academic progress coursework and professional potential judged by the design technology faculty at the end of the fall semester. Student must pass to remain eligible for the BFA design technology degree. Prerequisite: Senior standing and BFA Design Technology student and special approval.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 41521 ADVANCED LIGHTING TECHNOLOGY

Advanced study of the technologies used in lighting designs; instrument design, optics, dimmer and control systems, projection techniques and special effects. Prerequisite: THEA 11522.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41522 DESIGN STUDIO: LIGHTING

Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems. Prerequisite: THEA 31522 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41523 SOUND DESIGN AND TECHNOLOGY I

Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment mixing consoles amplifiers speakers. Prerequisite: Permission.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41524 DESIGN STUDIO: COSTUME

Advanced study in costume design. Genres styles in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer shop/personnel and designer director. Prerequisite: THEA 31525 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41525 PROPS AND CRAFTS

Examination of the processes related to the creation and procurement of scenic and costume props. Prerequisite: THEA 31525 and THEA 31622.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41527 SOUND DESIGN AND TECHNOLOGY II

Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored. Prerequisite: THEA 41523 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41528 THEATRE SOUND REINFORCEMENT

Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio. Prerequisite: THEA 41523 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN

Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required. Prerequisite: Junior standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41530 AUTOMATED STAGE LIGHTING PROGRAMMING

Studies in the application of automated lighting techniques to live performance emphasizing artistic style and concept



through a range of programming problems.
Prerequisite: THEA 11522; and junior standing; and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41560 THEATRE FABRICATION TECHNOLOGY

History of technical production practice, materials theory and application in scenic construction technology. Prerequisite: THEA 11622 and THEA 21521 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41620 HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS

Students explore the way in which theatre designers approach period style in their own creative work. Prerequisites: theatre (THEA) major with junior standing; and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance
Course Attributes: Writing Intensive Course

THEA 41621 PRESENTATION MEDIA

Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media. Prerequisites: junior standing and THEA 11522 and THEA 11524 and THEA 11622 and THEA 21521.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41622 DESIGN STUDIO: SCENERY

Advanced study in scenic design. Explores genres styles performance spaces including practical considerations. Prerequisite: THEA 31622 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41623 TELEVISION PRODUCTION: LIGHTING

Studies in the process and application of designing lighting for studio and event based television production. Prerequisite: THEA 11522 and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41701 MOVEMENT FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT

Development of technical skills emphasizing the physical components of expressive action through integration of breath, voice and body conditioning. Prerequisites: THEA 31701 and special approval.
3.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 41726 THEATRE MANAGEMENT

Principles and practices of managing theatrical-producing organizations. Problems of finance, personnel, policy, program building and public relations. Production participation as assigned. Prerequisite: Junior standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41736 PRODUCTION AND STAGE MANAGEMENT

Detailed investigation of the methodology used in stage managing a professional theatrical production including paperwork, rehearsals and calling a show. Prerequisite: Permission.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 41801 VOICE AND SPEECH I-THE ACTOR'S INSTRUMENT

The use of exercise and specific text work to explore 'centering' as it related to the vocal, physical and emotional process of the actor. Focus on extremes of emotional sounds and eliminating barriers and detrimental vocal habits/speech patterns. Prerequisite: THEA 31801 and special approval.
3.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 41808 ACTING STYLES I-SHAKESPEARE

The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare. Prerequisite: special approval.
3.000 Credit hours
4.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 41892 ENTERTAINMENT ARTS AND TECHNOLOGY INTERNSHIP II

Intensive advanced professional experience in aspects of entertainment arts and technologies. Repeatable up to 10 hours. Prerequisite: Junior standing and special approval.
5.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Theatre and Dance

THEA 41992 THEATRE PRODUCTION INTERNSHIP

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company. Repeatable for a total of 12 hours. Prerequisite: Junior standing and special approval.
1.000 TO 6.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 42092 PRACTICUM II: DESIGN/TECH

Advanced practical experience in theatre production under faculty supervision. Available for upper division students only. Required of all theatre majors. Repeatable. Prerequisite: Juniors or seniors only and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Practicum
Department: Theatre and Dance

THEA 42192 PRACTICUM II: PERFORMANCE

Advanced practical experience in theatre performance under faculty supervision. Available for upper division students only. Required of all theatre majors. Repeatable. Prerequisite: Junior or senior standing and special approval.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Practicum
Department: Theatre and Dance

THEA 42292 PRACTICUM II: THEATRE MANAGEMENT

Advanced practical experience in theatre management under faculty/staff supervision. Available for upper division students only. Repeatable for up to 12 hours. Prerequisite: Special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Theatre and Dance

THEA 51026 PLAYWRITING

Principles underlying playwriting for the contemporary theatre; analysis of short play form. May be repeated once. Prerequisite: Special approval of instructor and graduate standing.



3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51027 ADVANCED PLAYWRITING

Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition. May be repeated once. Prerequisite: THEA 51026 and special approval of instructor and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51093 VARIABLE TITLE WORKSHOP IN THEATRE

Variable topic offered as need arises to train in particular area of field. Specific topics will be announced in schedule of classes. Prerequisite: Graduate standing.

1.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Theatre and Dance

THEA 51095 SPECIAL TOPICS

Offered irregularly when unusual resources permit a topic. Prerequisite: Graduate standing and special approval.

1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51113 THEATRE IN A MULTICULTURAL AMERICA

A study of theatre and drama in the Native American, Hispanic American, African-American, and Asian American communities in the United States from 1980 to the present. Prerequisite: graduate standing and special approval of instructor.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51114 GAY AND LESBIAN THEATRE

Studies in how the gay and lesbian community has been represented in theatre. Frameworks will include the history of the community, political issues, identity questions and gender theory. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51133 THEATRE AND DRAMA IN AMERICA I

History of theatre and drama in America from the beginning to c. 1900. Prerequisite:

Special approval of instructor required and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51134 THEATRE AND DRAMA IN AMERICA II

The history of theatre and drama in America from c. 1900 to the present. Prerequisite: Special approval of instructor and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51191 VARIABLE CONTENT SEMINAR: THEATRE HISTORY/LITERATURE/THEORY

Seminar focuses on selected topics in these areas, for example performance art, performance theory or theatre in a multicultural society. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Theatre and Dance

THEA 51303 ACTING I FOUNDATIONS/STANISLAVSKI AND MICHAEL CHEKHOV

The Stanislavski and Michael Chekhov Techniques: A thorough exploration of Stanislavski's Method of Psycho-Physical Action, and the Michael Chekhov technique including atmosphere, psychological gesture, and qualities of movement. Prerequisite: special approval special approval of instructor and graduate standing.

3.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 51304 ACTING II: SCENE STUDY-MODERN AMERICAN REALISM

The application of the Stanislavski and Michael Chekhov Techniques to in-depth scene study using the plays of Odets, Miller, Williams, Shanley and others. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 51305 PROFESSIONAL ASPECTS: PERFORMANCE

A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered pictures and resumes, making rounds, professional unions, casting directors, agents and managers, the job

market and career prospects. Prerequisite: Special approval of instructor and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51306 PROFESSIONAL ASPECTS: DESIGN AND TECHNOLOGY

A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51401 ADVANCED DIRECTING

Advanced work in directing for the theatre. Topics include director as creative interpretative artist, the director and the actor. Students direct individual projects. Prerequisite: Special approval of instructor and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51521 ADVANCED LIGHTING TECHNOLOGY

Advanced study of the technologies used in lighting designs; instrument design, optics, dimmer control systems, projection techniques and special effects. Prerequisite: Graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51522 DESIGN STUDIO: LIGHTING

Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems. Prerequisite: Special approval and graduate standing.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51523 SOUND DESIGN AND TECHNOLOGY I

Sound design for the theatre, sound production and sound reinforcement techniques. Introduction to electronic equipment, mixing consoles, amplifiers, speakers. Prerequisite: Graduate standing and special approval.

3.000 Credit hours
3.000 Lecture hours
Level: Graduate



Schedule Types: Lecture
Department: Theatre and Dance

THEA 51524 DESIGN STUDIO: COSTUME

Advanced study in costume design. Genres, styles, in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer/shop personnel and designer/ director. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51525 PROPS AND CRAFTS

Examination of the processes related to the creation and procurement of scenic and costume props. Prerequisite: special approval of instructor and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51527 SOUND AND DESIGN TECHNOLOGY II

Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored. Prerequisite: THEA 51523 and special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51528 THEATRE SOUND REINFORCEMENT

Studies in the theories and practice of audio mixing in support of live vocal and musical performance. Topics include wired and wireless microphones and real time digital processing of audio. Prerequisite: Graduate standing and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51529 ADVANCED WIG AND MAKEUP TECHNIQUES-STAGE AND SCREEN

Advanced study of the process of designing and executing wigs and makeup with an emphasis on standards in the profession. Some prosthetic work required. Prerequisite: special approval of instructor and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51530 AUTOMATED STAGE LIGHTING PROGRAMMING

Studies in the application of automated lighting techniques to live performance emphasizing artistic style and concept through a range of programming problems. Prerequisite: Graduate standing and special approval. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51560 THEATRE FABRICATION TECHNOLOGY

History of technical production practice, materials theory and application in scenic construction technology. Prerequisite: special approval of instructor and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51620 HISTORY OF PERIOD STYLES FOR THEATRE DESIGNERS

A survey of visual styles as related to historical and contemporary culture from antiquity through the 20th century with an emphasis on their application to theatrical design. Prerequisite: special approval of instructor and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51621 PRESENTATION MEDIA

Advanced process techniques in rendering, model building and design presentation for the scenic costume and lighting designer in traditional and new media. Prerequisite: special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51622 DESIGN STUDIO: SCENERY

Advanced study in scenic design. Explores genres, styles, performance spaces, including practical considerations. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51623 TELEVISION PRODUCTION: LIGHTING

Studies in the process and application of designing lighting for studio and event-based television production. Prerequisite: Special approval and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate

Schedule Types: Lecture
Department: Theatre and Dance

THEA 51701 MOVEMENT, FORM AND SPACE I-THE ACTOR'S PHYSICAL INSTRUMENT

Development of technical skills emphasizing the physical components of expressive action through integration of breath, voice and body conditioning. Prerequisite: Special approval. 3.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 51726 THEATRE MANAGEMENT

Principles and practices of managing theatrical producing organizations. Problems of finance, personnel policy, program building and public relations. Production participation as assigned. Prerequisite: special approval of instructor and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51736 PRODUCTION AND STAGE MANAGEMENT

Detailed investigation of the methodology used in stage managing a professional theatrical production including paperwork, rehearsals and calling a show. Prerequisite: special approval of instructor and graduate standing. 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 51801 VOICE AND SPEECH I-THE ACTOR'S INSTRUMENT

The use of exercise and specific text work to explore 'centering' as it related to the vocal, physical and emotional process of the actor. Focus on extremes of emotional sounds and eliminating barriers and detrimental vocal habits/speech patterns. Prerequisite: special approval and graduate standing. 3.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Theatre and Dance

THEA 51808 ACTING STYLES I-SHAKESPEARE

The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare. Prerequisite: graduate standing and special approval. 3.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Theatre and Dance


THEA 57063 HISTORY OF DANCE AS A THEATRICAL PHENOMENON I

History of Dance from antiquity to 1900.
Prerequisite: graduate standing and special approval of instructor.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 57163 HISTORY OF DANCE AS A THEATRICAL PHENOMENON II

History of the development of concert and theatrical dance forms from 1900.
Prerequisite: special approval of instructor and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 57174 PRINCIPLES OF DANCE COMPOSITION I

Movement exploration with emphasis on the concepts of design structure and form.
Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 60096 INDIVIDUAL INVESTIGATION-COSTUME HISTORY

The study of 20th-century costume and international dress. Prerequisite: Special approval and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Theatre and Dance

THEA 60196 INDIVIDUAL INVESTIGATION-HISTORIC TEXTILES

Identification and analysis of textile fabric as the reflection of culture. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Theatre and Dance

THEA 60199 M.F.A. THESIS PROJECT

Students must register for course during the semester of their M.F.A. thesis project. Not repeatable. Prerequisite: Special approval of adviser and graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Theatre and Dance

THEA 60992 PROFESSIONAL THEATRE INTERNSHIP I

(Repeatable once) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre

Company. Prerequisite: special approval of instructor and graduate standing.

3.000 OR 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Theatre and Dance

THEA 61000 INTRODUCTION TO GRADUATE STUDY IN THEATRE

Orientation to bibliography and research in the field of theatre with emphasis on application of research to performance.
Prerequisite: special approval of instructor and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 61094 COLLEGE TEACHING IN THEATRE

Strategies for teaching, issues on implications of pedagogical practice and responsibilities of academic leadership.
Prerequisite: special approval of instructor and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 61095 SPECIAL TOPICS

Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled. Repeated registration permitted.
Prerequisite: special approval of instructor and graduate standing.
1.000 TO 3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 61096 INDIVIDUAL INVESTIGATION: THEATRE AND DRAMA

Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director. Repeatable for maximum of 6 credit hours.
Prerequisite: Special approval and graduate standing.
1.000 TO 4.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Individual Investigation
Department: Theatre and Dance

THEA 61098 RESEARCH

(Repeatable for credit) Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements if school approves. Prerequisite: special approval of instructor and graduate standing.
1.000 TO 15.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Research

Department: Theatre and Dance

THEA 61110 HISTORY OF THEORIES OF ACTING AND SPACE I

History of theories of acting and space in the theatre from the beginning to ca. 1850.
Prerequisite: special approval of instructor.
Prerequisite: special approval of instructor and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 61111 HISTORY OF THEORIES OF ACTING AND SPACE II

History of theories of acting and space in the theatre. Prerequisite: special approval of instructor and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 61191 SEMINAR: THEATRE HISTORY AND THEORY

An investigation of a period, historical/theoretical development, playwright/ practitioner/theorist (variable topics). Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Theatre and Dance

THEA 61199 THESIS I

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. Prerequisite: Graduate standing.
2.000 TO 6.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Theatre and Dance

THEA 61201 SOFTWARE APPLICATIONS

A survey of current software used in theatre production with an emphasis on applications for management, design and technical direction. Prerequisite: Special approval and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Theatre and Dance

THEA 61299 THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: THEA 61199 and graduate standing.
2.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Master's Thesis
Department: Theatre and Dance

**THEA 61303 ACTING III SCENE STUDY-
NATURALISM AND ABSURD**

In-depth scene study in the genres of Naturalism and Absurd theatre. Exploration of the works of Chekhov, Strindberg, Beckett and others. Prerequisite: Special approval of instructor and graduate standing.

3.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Theatre and Dance

**THEA 61305 ACTING STYLES II: GREEK
AND COMEDY OF MANNERS**

Application of acting, movement, and speech techniques to these specific genres. Focus on style and physicalization using Greek and English Restoration playwrights as well as Molière, Wilde and others. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

**THEA 61309 MASTER OF FINE ARTS
COMPREHENSIVE PROJECT IN ACTING**

Intensive work in the development of the practical aspects of production; includes performance or exhibition of work, documentation of that work in a format appropriate for area and project, and an exit interview. Prerequisite: THEA 61000; special approval of instructor and graduate standing.

1.000 TO 3.000 Credit hours

3.000 TO 9.000 Lab hours

Level: Graduate

Schedule Types: Laboratory

Department: Theatre and Dance

**THEA 61310 MASTER OF FINE ARTS
DESIGN AND TECHNOLOGY
CULMINATING PROJECT**

An intensive experience in the development of design and/or technical aspects of a theatrical production; the scope of work may include but not necessarily be limited to research, drawings and drafting, renderings and associated digital image, video or audio files. Documentation, appropriate for the area and project, is presented at an exit interview. Prerequisite: THEA 61000; special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation,
Master's Thesis, Studio

Department: Theatre and Dance

THEA 61391 SEMINAR: PLAYWRITING

Intensive analysis of dramaturgical theory. Scope of the inquiry dependent upon individual interests of those enrolled. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Theatre and Dance

**THEA 61497 PRODUCTION
COLLOQUIUM**

Collegial exploration of the intersections among creative and scholarly/critical/theoretical thinking. Students involved in the colloquium may be pursuing current creative projects under faculty supervision. Does not count toward degree. Prerequisite: Special approval and graduate standing.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Colloquium

Department: Theatre and Dance

**THEA 61521 ADVANCED THEATRE
DRAFTING**

Advanced drafting techniques for the technical director, scenic designer and lighting designer. Includes film, television, industrial and engineering graphic techniques. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

**THEA 61522 ADVANCED STUDIES IN
LIGHTING DESIGN**

Detailed exploration of the skills of designing lighting with emphasis on theatre, opera, ballet, alternative venues and professional standards. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

**THEA 61524 ADVANCED STUDIES IN
COSTUME DESIGN FOR STAGE AND
SCREEN**

Detailed exploration of skills in designing costumes for stage and screen. Emphasis on concept work, stylist work, accuracy in research, organizational skills and industry standards. Prerequisite: THEA 51524 and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

**THEA 61525 MILLINERY AND 3-D
CHARACTERS**

Advanced studies of techniques of millinery construction and 3D character construction with an emphasis on current practice in the industry. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 61527 SHOP MANAGEMENT

Study of resource management for the professional shop. Topics business planning labor relations accounting budgeting and productivity techniques. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

**THEA 61561 ADVANCED
CONSTRUCTION THEORY**

The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

**THEA 61621 ADVANCED STUDIES IN
SCENE PAINTING**

Advanced study of the techniques used in painting scenery for theatre and television. Emphasizes professional standards and the practical application of skills. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

**THEA 61622 ADVANCED STUDY:
SCENERY FOR STAGE AND SCREEN**

Detailed exploration of the skills of designing scenery with emphasis on theatre, opera, ballet, film, television and alternative venues and the professional standards associated with each area. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

**THEA 61701 MOVEMENT, FORM AND
SPACE II-NEUTRAL AND CHARACTER
MASK**

Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through performance in masks. Prerequisite: THEA 51701; special approval of instructor and graduate standing.

3.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Theatre and Dance



THEA 61702 MUSICAL THEATRE STYLES

The study of diverse styles of choreography for the actor performing in Musical Theatre. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Theatre and Dance

THEA 61801 VOICE AND SPEECH II- VOCAL DEMANDS AND DIALECTS

Voice principles are covered in depth and detail with emphasis on their applications to dialects, singing and media voice work.

Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Theatre and Dance

THEA 61802 VOICE AND SPEECH III-THE ACTOR/SINGER

Training in methods and skills necessary for the singing actor. Focus on the integration and physicalization of lyrics and music.

Prerequisite: THEA 51801; special approval of instructor and graduate standing.

3.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Theatre and Dance

THEA 61806 SINGING FOR THE ACTOR

A comprehensive study of performance techniques and repertoire appropriate to the singing actor. Prerequisite: THEA 51801; special approval of instructor and graduate standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Theatre and Dance

THEA 61992 PROFESSIONAL THEATRE INTERNSHIP II

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a professional theatre company. Prerequisite: special approval and graduate standing.

3.000 OR 6.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 62092 PRACTICUM: DESIGN/TECHNOLOGY

Practical experience for the graduate student in theatre design and technology under faculty supervision. SU grading, IP permissible. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 62192 PRACTICUM: PERFORMANCE

Practical experience for the graduate student in theatre performance under faculty supervision. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 62292 PRACTICUM: THEATRE MANAGEMENT

Practical experience for the graduate student in theatre management under faculty/staff supervision. Repeatable for a total of 12 hours. Prerequisite: Special approval and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 62792 PRODUCTION DRAMATURGY

(Repeatable for credit) Under faculty supervision, a student will serve as dramaturg to a school of Theatre and Dance production. Prerequisite: special approval of instructor and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 62892 THEATRE PRACTICUM

Practical experience for the graduate student in co-curricular theatre activities, under faculty supervision. Repeatable twice. Prerequisite: Special approval and graduate standing.

1.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 62992 THEATRE PRODUCTION INTERNSHIP

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble. Repeatable for a maximum of 12 hours. Prerequisite: Special approval of adviser and graduate standing.

1.000 TO 6.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 63192 MENTORSHIP IN PERFORMANCE

(Repeatable for a total of 6 credit hours) Development of advanced skills and abilities to mentor student performers in

aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal and performance of main stage productions or assisting in THEA 451305 Professional Aspects. May be taken with THEA 62192 Practicum: Performance.

Prerequisites: graduate standing and special approval of instructor.

3.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 64192 MENTORSHIP AT PORTHOUSE

(Repeatable for a total of 6 credit hours)

Development of advanced skills and abilities to mentor student performers in aspects of the profession, including professional behavior, understanding of the business and the actor's creative process. Major work done while participating in rehearsal of Porthouse productions. May be taken with THEA 62192 Practicum: Performance.

Prerequisites: graduate standing and special approval of instructor.

3.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 65192 TEACHING PRACTICUM

(Repeatable for a total of 6 credit hours) Application of strategies for teaching acting and other aspects of the art of theatre and performance at the college level. Development of advanced skills in course preparation, classroom management and pedagogical practice. Major work done teaching or assisting with undergraduate-and/or graduate-level studio acting classes. Prerequisite: THEA 61094; and graduate standing; and special approval of instructor.

3.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Practicum

Department: Theatre and Dance

THEA 67070 PRINCIPLES OF DANCE COMPOSITION II

Movement exploration with emphasis on the development of advanced choreographic techniques. Prerequisite: special approval and graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

THEA 72892 THEATRE PRACTICUM

Practical experience for the graduate student in co-curricular theatre activities, under faculty supervision. Repeatable twice. Prerequisite: Special approval and doctoral standing.

1.000 Credit hours

3.000 Lecture hours

Level: Graduate



Schedule Types: Lecture
Department: Theatre and Dance

THEA 72992 THEATRE PRODUCTION INTERNSHIP

(Repeatable for a total of 12 credit hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble. Prerequisite: special approval of adviser and doctoral standing.

1.000 TO 6.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Theatre and Dance

Translation Studies (TRST)

TRST 20009 MULTILINGUAL INFORMATION LIFECYCLE

Introduction to the multilingual information cycle, including general technological issues, text preparation, translation in markup languages, computer-assisted translation tools and multilingual information flow for multilingual and multicultural work. Course is taught in English. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

TRST 30230 APPROACHES TO TRANSLATION

Introduction to foreign language translation. Introduces concepts, resources, principles and techniques of text analysis and translation strategies applicable to various types of texts. Prerequisite: junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

TRST 30330 CROSS-LANGUAGE MEDIATION

An exploration of textual and contextual factors impacting cross-language mediation. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

TRST 38303 MEDICAL SPANISH TRANSLATION AND INTERPRETING

Translation, cross-cultural health literacy, text analysis, familiarization with common medical text types and terminology; text production in English of Spanish medical documents, focusing on strategies of research, documentation and transfer. The

rudiments of interpreting in health care environments, including protocol. Course is taught primarily in English. Prerequisite: SPAN 28202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

TRST 60001 GRADUATE RESEARCH AND WRITING IN TRANSLATION STUDIES

Individual instruction and assistance with problems encountered in academic research and writing in translation.

Prerequisite: Graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

TRST 60009 DOCUMENTS IN MULTILINGUAL CONTEXTS

An in-depth study of the role of documents in the multilingual information cycle as manifested in word-processing, desktop publishing and web based environment.

Prerequisite: Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

TRST 60010 THEORY OF TRANSLATION AND INTERPRETING

Introduction to the theoretical bases and methods of language mediation.

Prerequisite: Graduate standing.

2.000 Credit hours

2.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

TRST 60011 TERMINOLOGY AND COMPUTER APPLICATIONS IN TRANSLATION

Practice-oriented introduction to terminology management and translation tools, such as term extraction, translation memory and machine translation.

Prerequisite: TRST 60009 and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Modern and Classical

Language Studies

TRST 60012 SOFTWARE LOCALIZATION

Introduction to localization, the translation and adaptation of products including software and Web pages for sale or dissemination in specific target-language markets. Course introduces the basic concepts and techniques of localization and

provides a hands-on introduction to relevant computer software. Prerequisite: TRST 60011 with minimum B (3.0) grade and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Modern and Classical

Language Studies

TRST 60013 LANGUAGE PROJECT MANAGEMENT

Introduction to project management in the language industry. Course covers the body of knowledge and skills, including the use of project management software, required to perform the duties of a translation or localization project manager. Beginning with an overview of the language industry, the course examines the language industry project. Prerequisites: TRST 60011 with minimum B (3.0) grade and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Modern and Classical

Language Studies

TRST 60098 RESEARCH IN TRANSLATION STUDIES

Research for M.A. translation students.

Credits earned may be applied toward degree if department approves. Repeatable for a total of 15 credit hours. Prerequisite: graduate standing.

1.000 TO 15.000 Credit hours

1.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Modern and Classical

Language Studies

TRST 60298 APPLIED TRANSLATION RESEARCH

Research experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member. Course may be repeated for a maximum of 3 hours. Prerequisite: graduate standing and TRST 60010.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Modern and Classical

Language Studies

TRST 70001 APPLIED LINGUISTICS AND TRANSLATION INFORMATICS

Advanced topics in applied linguistics, including corpus and text linguistics as they apply to translation. Advanced topics in translation informatics in multilingual environments. Prerequisite: TRST 60011 and doctoral standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Modern and Classical

Language Studies

**TRST 70002 THE LANGUAGE INDUSTRY**

Study of the socio-economic context of professional translation and the language services business sector. Includes in-depth study of the language industry drawing on industry analysis and business case studies. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

TRST 70003 TERMINOLOGY STUDIES

Advanced topics in terminology, lexicography, ontology and knowledge organization systems. Prerequisite: TRST 60011 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

TRST 70004 TRANSLATION PEDAGOGY

Teaching methods and curriculum design for translation programs. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

TRST 70005 CURRENT TRENDS IN TRANSLATION STUDIES

A critical examination of the main trends in translation theory and an exploration of emerging developments in translation studies. Prerequisite: TRST 60010 and doctoral standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

TRST 70006 EMPIRICAL METHODS FOR TRANSLATION STUDIES

Study of the methods and research designs used to conduct empirical research in translation, with an emphasis on experimental design of cross-language tasks, the use and analysis of bilingual verbal protocols, the application of new methods such as keystroke-logging and eye-tracking and the particular empirical and methodological issues involved in cross-language research data-gathering and statistical analysis. Prerequisite: doctoral standing and Translation Studies major (TRST).
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Modern and Classical Language Studies

TRST 70007 CORPORA IN TRANSLATION

Exploration of corpus-based applications in translation studies research and the practice of translation. Competence in utilizing translation-oriented corpus-based tools and corpus building will be fostered. Prerequisite: doctoral standing and Translation Studies major.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

TRST 70008 TRANSLATION AND COGNITION

Study of foreign language translation and interpreting from a cognitive science perspective. Includes discussion of current empirical research, application of selected models of cognition to problems in translation studies and research design in translation process research. Prerequisite: doctoral standing and Translation Studies major (TRST).
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Modern and Classical Language Studies

TRST 80091 SEMINAR IN TRANSLATION STUDIES

Seminar for doctoral students to present and discuss research related to specific areas of Translation Studies. May be taken for a total of 6 semester hours alone or in combination with TRST 80191. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Modern and Classical Language Studies

TRST 80098 RESEARCH IN TRANSLATION STUDIES

Research for doctoral students. Credits earned may be applied toward degree if department approves. Repeat registration permitted. Prerequisite: Doctoral standing.
1.000 TO 15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Research
Department: Modern and Classical Language Studies

TRST 80191 SEMINAR IN TRANSLATION INFORMATICS

Seminar for doctoral students to present and discuss research related to specific areas of translation informatics. May be taken for a total of 6 semester hours alone or in combination with TRST 80191. Prerequisite: Doctoral standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Seminar

Department: Modern and Classical Language Studies

TRST 80199 DISSERTATION I

Doctoral dissertation. Registration in at least two semesters is required the first of which will be the semester in which dissertation work begins and continuing until 30 hours are completed. Prerequisite: Special approval and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Modern and Classical Language Studies

TRST 80299 DISSERTATION II

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met. Prerequisite: TRST 80199 and doctoral standing.
15.000 Credit hours
15.000 Other hours
Level: Graduate
Schedule Types: Dissertation
Department: Modern and Classical Language Studies

Urban Design (UD)**UD 55705 FORCES THAT SHAPE CITIES**

Course examines the forces that have shaped urban form through history, how they impact our cities today and the challenges they will pose for the future. Prerequisite: graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Architecture

UD 55710 DESIGN METHODOLOGY AND METHODS

Seminar on procedural theory in urban design, the nature of the design process and how its manipulation affects the quality and character of designing products. Prerequisite: graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Architecture

UD 55711 CASE STUDIES IN URBAN DESIGN

An in-depth evaluation of important example of completed urban design projects presented by key project participants. Prerequisite: graduate standing.
1.000 TO 3.000 Credit hours
1.000 TO 3.000 Other hours
Level: Graduate
Schedule Types: Seminar
Department: Architecture

UD 60701 URBAN DESIGN STUDIO I

Introduction to urban design and its relationship to other design disciplines



through the analysis of neighborhoods and the definition of comprehensive area improvement programs. Prerequisite: graduate standing.

3.000 TO 6.000 Credit hours

6.000 TO 10.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Architecture

UD 60702 URBAN DESIGN STUDIO II

Urban design explorations of the formal relationships between buildings, open spaces and streets in the development of high density, mixed-use projects.

Prerequisite: UD 60701 and graduate standing.

3.000 TO 6.000 Credit hours

6.000 TO 10.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Architecture

UD 60703 URBAN DESIGN STUDIO III

Design of a comprehensive redevelopment strategy and implementation strategies for an urban area of diverse existing character.

Prerequisite: UD 55705 and 60702 and 65102 and graduate standing.

3.000 TO 6.000 Credit hours

3.000 TO 6.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Architecture

UD 60704 URBAN DESIGN STUDIO IV

Independent urban design project, completed under the direction of an individual advisor selected from the graduate faculty. Prerequisite: UD 60703 and 60705 and graduate standing.

6.000 TO 9.000 Credit hours

10.000 TO 15.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Architecture

UD 60705 CAPSTONE PROJECT PREPARATION

Development of a rationale and structure for the independent design project to be completed in the final semester of the program. Prerequisite: UD 60703 and graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Architecture

UD 65101 COMMUNITY DEVELOPMENT PROCESS

Advanced course on comprehensive community development. Case study analysis, qualitative research in work with community initiatives are required.

Prerequisite: UD 55705 and 60703 and 65102 and graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Architecture

UD 65102 URBAN SYSTEMS

Introduction to urban systems in its socio-economic, environmental and engineering aspects: residential fabric, commercial sector, open space network, transportation systems, infrastructures. Prerequisite: graduate standing.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Architecture

UD 65632 URBAN ECOLOGY

Study of urban habitats and ecosystems. Relationships between natural systems and community design, planning, development and redevelopment. Prerequisites: UD 65102 and graduate standing.

1.000 TO 3.000 Credit hours

Level: Graduate

Schedule Types: Seminar

Department: Architecture

UD 66995 SPECIAL TOPICS IN URBAN DESIGN

Special topics in urban design. Repeated registration permitted. Prerequisite: graduate standing.

1.000 TO 4.000 Credit hours

1.000 TO 4.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Architecture

Undergraduate Studies (US)

US 10002 ADULT STUDENT ORIENTATION

(Equivalent to US 10097) This course focuses on balancing adult roles and responsibilities with college demands. Students will sharpen learning skills and study strategies while making connections with other adult students at Kent State. Prerequisite: None.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 10003 READING STRATEGIES FOR COLLEGE SUCCESS

Development of reading strategies necessary for successful completion of college coursework. Emphasis on improving reading comprehension. Hours do not count toward graduation. Prerequisite: assessment testing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 10006 STUDY STRATEGIES FOR COLLEGE SUCCESS

Development and application of content area reading and study strategies for successful completion of college coursework. Emphasis on application of

study strategies. Hours do not count toward graduation. Prerequisite: special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 10095 SPECIAL TOPICS IN UNDERGRADUATE STUDIES

This program, administered by the dean is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty. Prerequisite: none.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 10096 INDIVIDUAL INVESTIGATION

(Repeatable for a maximum of 6 credit hours) Experiential learning opportunity, working with a faculty member in his or her area of expertise. Prerequisite: none.

1.000 TO 6.000 Credit hours

1.000 TO 6.000 Other hours

Level: Undergraduate

Schedule Types: Individual Investigation

Department: Undergraduate Studies

US 10097 DESTINATION KENT STATE: FIRST YEAR EXPERIENCE

(Equivalent to US 10002 AND 20007) Assists student in making a successful academic transition to the university through experiential or intellectually engaging discipline-based content.

Required of all first year students. Not required of transfer students with 25 or more credit hours. Prerequisite: none.

1.000 Credit hours

1.000 Other hours

Level: Undergraduate

Schedule Types: Colloquium

Department: Undergraduate Studies

US 20007 LIFE BEYOND KSU

(Equivalent to US 10097) Equips students with the knowledge and tools critical for entering the professional world through research and application of career-related concepts and activities. Reserved for students who have not successfully completed the Destination Kent State: First Year Experience orientation course. Prerequisite: junior or senior standing.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 20008 CAREER CONSTRUCTION

Students increase self-awareness equipping them to navigate a lifetime of meaningful occupational realities. Through experiential activities, discussions, and reflective exercises students gain self-understanding and connect academic opportunities to careers and narrow down



specializations in career fields in order to select a major or evaluate career changes. Designed for students in the following majors: AEDG, EHSG, CCIG, PREP, CAG, PFDM, PGA, and EXPL. Also appropriate for any student interested in finding personal meaning and mattering in occupational and life decisions.

Prerequisite: none.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 20009 CAREER AND LIFE PLANNING: CHANGE, CHANCE AND CHOICE

Navigating a career and life planning are highly complex. Designed to equip students with knowledge and skills useful in decision making about how to use opportunities to build meaningful futures and how to maintain flexibility and adaptability in the complex work environment. Designed for students in the following majors: AEDG, EHSG, CCIG, PREP, CAG, PFDM, PGA, and EXPL. Also appropriate for any student contemplating or engaged in life and career exploration or change. Prerequisite: US 20008.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 20095 SPECIAL TOPICS IN UNDERGRADUATE STUDIES

This program, administered by the dean is intended to encourage interdisciplinary study to cover areas not treated adequately in traditional coursework and to make available promptly the new and significant experience of the faculty. Prerequisite: None.

1.000 TO 3.000 Credit hours

1.000 TO 3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 20193 VARIABLE TITLE WORKSHOP IN UNDERGRADUATE STUDIES

Workshop focused on variable topics.

Repeated registration permitted.

Prerequisite: None.

1.000 TO 3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Undergraduate Studies

US 20201 DESTINATION KENT STATE STUDENT LEADER TRAINING

Prepares students to develop a solid foundation in Destination Kent State programs, KSU knowledge, leadership and communication skills in order to support the DKS programs. May include Saturday sessions. Prerequisites: US 10097.

2.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 20203 THEORY AND PRACTICE OF PEER TUTORING

Preparation for tutoring in several academic areas. Emphasis on the student as learner. Introduction to current learning theories.

Opportunities provided to adapt learning strategy to particular disciplines. Field experience included. Prerequisite: None.

1.000 Credit hours

1.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 30202 DESTINATION KENT STATE STUDENT SUCCESS LEADER SEMINAR

Required of all Student Success Leaders who have previously taken and passed US 20201 and who are paired with a faculty member in assisting with DKS: First Year Experience course. Students need to meet the minimum requirements for the college or department in which they serve as a Student Success Leader for the DKS: FYE course (US 10097). Prerequisite: US 20201.

2.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Seminar

Department: Undergraduate Studies

US 40201 DESTINATION KENT STATE STUDENT LEADER TRAINING

Experienced Destination Kent State student leaders selected to be trainers are required to take this course. It provides training and skill development for assisting with training future Destination Kent State student leaders. Prerequisites: US 30202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

US 40202 DESTINATION KENT STATE INTERN SEMINAR

Experienced student success leaders selected to be student interns are required to take this course. This course extends training and skill development for students who assume responsibility for assisting Student Success Leaders. Prerequisites: US 30202.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Undergraduate Studies

Visual Communication Design (VCD)

VCD 13000 INTRODUCTION TO VISUAL COMMUNICATION DESIGN I

Introduction to the design and illustration program in VCD as well as the design profession. Focus on historical overview,

industry standards, job opportunities, creative design process and skills needed to succeed. Prerequisite: photo illustration (PHOI) or visual communication design (VCD) major.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Visual Communication Design

VCD 13001 INTRODUCTION TO VISUAL COMMUNICATION DESIGN II

Introduction to basic design processes using research, writing conceptual problem solving and format organization of two dimensional space utilizing type and imagery. Prerequisite: VCD 13000.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Visual Communication Design

VCD 14001 VISUAL DESIGN LITERACY

Examines the topics visual communication design theory, two-dimensional graphic design, environmental graphic design, typography, illustration, photographic illustration, and interactive media.

Introduction to how and why professionals in the field of visual communication design create meaning and context through their work. Students explore the language of visual communication, how it is influenced by form, content and context. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Visual Communication Design

VCD 14002 COMMUNICATING WITH COLOR

Introduction to color as it applies to fields of design and related areas. Topics covered include the vocabulary of color, the primary elements of color theory, color systems, color printing, color in film and online, and the effects of lighting on color. Students gain an appreciation for how color influences design and commerce through an understanding of basic practices of color forecasting and a study of how color perception is influenced by cultural differences. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Visual Communication Design

VCD 17000 COLOR:THEORY AND APPLICATION

Color and its interaction through a series of non-applied (abstract) exercises. Prerequisite: None.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Studio

Department: Visual Communication Design

**VCD 20000 BASIC COMPUTER-GRAPHIC DESIGN AND ILLUSTRATION**

Introduction of basic operating system of Macintosh hardware and major design software for creation of layouts, vector and raster graphics. Explore production and peripheral equipment including scanners and printers. Prerequisite: visual communication design (VCD) majors. 3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

VCD 20001 SOPHOMORE ENTRANCE EXAMINATION/PORTFOLIO REVIEW-PHOTO ILLUSTRATION

VCD faculty review student portfolios of work from prerequisite and corequisite courses. A diagnostic examination to evaluate technical proficiency and formal organizational ability also is included in this review. Prerequisite: VCD 28002 and photo illustration (PHOI) major. Corequisites: VCD 20010 and 38003. 1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 20003 INTERMEDIATE COMPUTER-GRAPHIC DESIGN/ILLUSTRATION

A technical, studio course designed to teach the fundamentals of Web design in Go Live and Flash. Material is presented throughout a series of demos, exercises and projects. Prerequisite: VCD 20000. 3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

VCD 20006 KINETIC AND SEQUENTIAL GRAPHIC DESIGN

A technical, studio course designed to teach the fundamentals of newly emerging technologies including Web design in the visual communication design profession. Material will be presented through series of demos and hands-on exercises. Prerequisite: VCD 20003 and visual communication design (VCD) major. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 20009 SOPHOMORE ENTRANCE EXAMINATION/PORTFOLIO REVIEW

Visual communication design freshman and sophomore level studio courses. A diagnostic examination of technical and drawing skills and formal organizational ability through a series of hands-on tests. Prerequisites: photo illustration (PHOI) or visual communication design (VCD) major; and PHOI majors VCD 13000 and 13001 and 28000 and 28002 and 38003; or VCD

majors VCD 13001 and 22000 and 22001 and 23001 and 23002.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 20010 INTRODUCTION TO DESIGN RESEARCH

Introduction to research methods used in the professional practice of visual communication design. Students are exposed to strategies, tactics and frameworks used in the creation of design artifacts. Prerequisites: VCD 23001 and visual communication design (VCD) major. 3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Visual Communication Design

VCD 22000 DESIGN/ILLUSTRATION TECHNIQUES I

Introductory course in design/illustration. Object drawing with emphasis toward rendering materials and techniques used in reproduction, perspective, spatial organization and use of reference material. Prerequisite: VCD 13001. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 22001 DESIGN/ILLUSTRATION TECHNIQUES II

Continuation of Design/Illustration Techniques I with expanded emphasis on black and white media used for illustration purposes with emphasis on media capable of reproduction by traditional printing methods. Prerequisite: VCD 23001. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 23000 INTERMEDIATE STUDIO SKILLS: GRAPHIC DESIGN AND ILLUSTRATION

A technical lecture course designed to outline the process and describe and discuss the technologies and vocabulary used in the printing industry. Prerequisite: VCD 23001. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 23001 INTRODUCTION TO TYPOGRAPHY

Historical study of letter forms and their application to the development of new forms. Execution and use of letter forms as design elements in layout and illustration using fundamental typographic theories and rules of spatial organization. Prerequisites: VCD 13000 and VCD 13001.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 23002 INTRODUCTION TO 3D GRAPHIC DESIGN

Continuation of Introduction to Graphic Design and Introduction to Typography with application of typography and imagery to 3-D form. Prerequisites: VCD 13001 and VCD 23001. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 24001 PRODUCT DESIGN

Research and design of singular self-contained objects. Utilization of industrial materials and fabricating techniques emphasizing aesthetics. Prerequisite: VCD 24000. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 24009 SOPHOMORE PORTFOLIO REVIEW

Preparation and review of a portfolio of work under supervision of industrial design faculty, to be judged at the end of term. See "requirement 1" under Bachelor of Science degree in industrial design. Prerequisite: VCD 24001. 1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 27000 INTERIORS RENDERING

The production of professional techniques in design communication using felt pens, chalks and pencils. Elevations, plans, furniture, perspectives, axonometrics and furnishings are produced in color. Prerequisite: TECH 11083. 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 27001 VISUAL DESIGN FOR MEDIA: BASIC

An introductory lecture course on the theoretical principles of "design" and their relation to content in magazines, newspapers, television and online media, etc. Course may not be used by visual communication design majors. Prerequisite: None. 1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Visual Communication Design

**VCD 28000 PHOTOGRAPHY**

Basic camera techniques to provide a better understanding of photography as a creative skill in visual communication.
Prerequisites: VCD 13000 and VCD 13001.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 28002 PHOTOGRAPHY II

Course elaborates upon the basic technical information covered in Photography, VCD 28000. Through a set of sequential and interrelated problems, the class is designed to touch upon a series of photographic situations that frequently affect the working professional in the studio, or in the field.
Prerequisite: VCD 28000.
3.000 Credit hours
5.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 30008 JUNIOR PORTFOLIO REVIEW-PHOTO ILLUSTRATION

Required portfolio review in conference, with the school of Visual Communication Design Faculty, of work completed in VCD 38004 and VCD 38001. Students successfully passing review may continue in the B.S. degree program in Photo Illustration. Students not receiving a passing grade in the review may not continue in the program. Prerequisites: VCD 38004 and photo illustration (PHOI) major. Corequisite: VCD 38001.
1.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 30009 JUNIOR PORTFOLIO REVIEW: GRAPHIC DESIGN/ILLUSTRATION

Required portfolio review in conference, with the school of Visual Communication Design Faculty, of work completed in VCD 32000, 32001, 33000 and 33001. Students successfully passing review may continue in the B.A. degree. To change to the B.F.A. program, students must be nominated by a majority of the VCD faculty. Students not receiving a passing grade in the review may not continue in the program. Prerequisites: visual communication design (VCD) major; VCD 32000 and 33000 and corequisites VCD 32001 and 33001.
1.000 Credit hours
1.000 Lecture hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 32000 ILLUSTRATION I

Continuation of Design/Illustration Techniques I and II with emphasis on technique and creative solutions as they apply to four specific illustration areas: viz., editorial book, advertising and institutional. Prerequisite: VCD 20009.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 32001 ILLUSTRATION II

Illustration as communication: conceptual problem-solving visualizations of ideas utilizing felt tip markers as the medium of expression. Prerequisite: VCD 32000.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 33000 GRAPHIC DESIGN I

Continuation of Introduction to Graphic Design and Introduction to Typography in the structuring of 2-D communication design utilizing headline, body copy and illustration with the addition of limited conceptual content. Prerequisite: VCD 20009.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 33001 GRAPHIC DESIGN II

Continuation of Graphic Design I, utilizing basic layout with emphasis on concept as applied to problem-solving methodologies through a series of exercises and problems. Prerequisites: VCD 32000 and VCD 33000.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 34004 VISUAL ETHICS

An extension of the information covered in the course Visual Literacy. Topics include the understanding of visual form, responsibility of the designer, photographer, and illustrator and those working in collaboration with visual communicators. Looks at image manipulation, copyright laws and ethical and professional guidelines. Also covered are topics such as sustainable design practices, acting as an advocate of the consumer and audience member. Discussion topics include credibility, dignity and developing a personal philosophy towards visual ethics. Prerequisite: VCD 14001.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Visual Communication Design

VCD 37000 VISUAL DESIGN FOR MEDIA: ADVANCED

A lab course in which students apply design concepts to computer-generated communication pieces using a layout software program. May not be used toward degree requirements by visual communication design majors. Prerequisite: none.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

VCD 38001 PHOTOGRAPHICS

This course explores basic studio setups and controlled lighting with special emphasis on the inter-relationship of photography and typography in communication. Unique solutions are created through the use of the camera and image manipulation programs. Prerequisites: VCD 13001 and VCD 20009 and VCD 28000 and VCD 38004.
3.000 Credit hours
3.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory
Department: Visual Communication Design

VCD 38003 PHOTO TECHNOLOGY

Photo technology is a professional course serving visual communication design students within photo-illustration. The course is designed to give students an advanced working knowledge of digital and film photographic systems through testing procedures and use of special purpose materials. Prerequisites: VCD 13001 and VCD 28000 and photo illustration (PHOI) or visual communication design (VCD) major.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 38004 ADVANCED PHOTOGRAPHY

Use of specialized equipment, materials and techniques. Development of conceptual abilities and problem solving skills. Special equipment furnished. Prerequisites: VCD 13001 and VCD 28000.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 38008 PHOTO-DESIGN TECHNIQUES

Use of unusual photographic materials and techniques in design of images for many purposes. Prerequisites: VCD 13001 and VCD 28000.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 38009 INTERNSHIP SEMINAR-PHOTO ILLUSTRATION

Under the supervision of faculty, student prepare materials such as cover letters, resumes, applications for employment and individual portfolios in preparation for interviewing for an internship in their field of study. Prerequisite: VCD 38004 and photo illustration (PHOI) majors. Corequisite: VCD 38001.
1.000 Credit hours



1.000 Other hours
Level: Undergraduate
Schedule Types: Seminar
Department: Visual Communication Design

**VCD 40025 PROFESSIONAL
PORTFOLIO: GRAPHIC
DESIGN/ILLUSTRATION**

Develop a professional portfolio in graphic design and/or illustration through selection and refinement of previously completed classroom work/development of projects in areas of deficiency with emphasis on organization and presentation. Repeatable with permission. Prerequisite: photo illustration (PHOI) or visual communication design (VCD) major.

1.000 OR 2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 40052 GRAPHIC DESIGN-TRAVEL
AND FIELD EXPERIENCE**

Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience. Prerequisite: none.

1.000 TO 16.000 Credit hours
1.000 TO 16.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 40053 GRAPHIC DESIGN STUDIO-
GLYPHIX**

Professional experience through an internal design studio. Involves responsibilities and procedures for the production of communication materials for off-campus clients including nonprofit organizations, charities, arts groups and selected on-campus groups and departments. Repeatable for a total of 24 credit hours. Prerequisite: none.

1.000 TO 8.000 Credit hours
1.000 TO 8.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 40092 INTERNSHIP I-GRAPHIC
DESIGN/ILLUSTRATION**

Preparation for experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through real job situations. Prerequisite: none.

1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Visual Communication Design

**VCD 40095 SPECIAL TOPICS:GRAPHIC
DESIGN/ILLUSTRATION**

To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Primarily used to fulfill electives in graphic design or

illustration. Repeatable for a total of 16 credit hours. Prerequisite: VCD 30009.
1.000 TO 4.000 Credit hours
1.000 TO 4.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 40096 INDIVIDUAL INVESTIGATION
IN GRAPHIC DESIGN AND
ILLUSTRATION**

Individual study related to topics of graphic design and illustration approved by and under the direction of a faculty member. Repeatable for a total of 16 credit hours. Prerequisite: none.

1.000 TO 8.000 Credit hours
8.000 Other hours
Level: Undergraduate
Schedule Types: Individual Investigation
Department: Visual Communication Design

**VCD 40192 INTERNSHIP II-GRAPHIC
DESIGN/ILLUSTRATION**

Three credit hours required; maximum of 6 credit hours allowable in BFA degree only. Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through a real job situation. Prerequisite: VCD 40092.

1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Visual Communication Design

**VCD 40193 VARIABLE TITLE
WORKSHOP IN VCD**

Workshop setting dealing with intensive examination of special topics in VCD. May be repeated. Prerequisite: none.

1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Workshop
Department: Visual Communication Design

**VCD 40195 SELECTED TOPICS:
GRAPHIC DESIGN/ILLUSTRATION**

Variable topics related to graphic design and illustration. Repeatable. Prerequisite: none.

1.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Visual Communication Design

**VCD 42000 ADVANCED ILLUSTRATION:
MEDIA**

Discussions and practice of media and grounds as they pertain to the illustration field. Discussion also centers around the problems in developing work for reproduction. Prerequisite: VCD 30009.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 42002 EDITORIAL ILLUSTRATION

Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience. Prerequisite: VCD 30009.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 42003 ADVERTISING
ILLUSTRATION**

Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience. Prerequisite: VCD 30009 with minimum B (3.0) grade.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 42004 COMPUTER ILLUSTRATION

An introductory course on the use of the computer as an illustration tool. Class covers the necessary computer applications for advertising, editorial and book illustration. Prerequisite: VCD 20000.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 42051 CALLIGRAPHY AND
LAYOUT**

Development of creative techniques and technical proficiency in calligraphy as applied to illustration and graphic design. Prerequisite: VCD 30009.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 43000 STUDIO PRODUCTION

A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. Material is presented through lectures, demos, tests and field trips. Prerequisite: VCD 30009 with minimum B (3.0) grade.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 43001 ADVANCED KINETIC AND
SEQUENTIAL GRAPHIC DESIGN**

The exploration of the use of the computer in kinetic and sequential graphic design, 3-D modeling and sound. Prerequisite: VCD 20006 and visual communication design (VCD) major.

3.000 Credit hours
5.000 Other hours
Level: Undergraduate



Schedule Types: Studio
Department: Visual Communication Design

**VCD 43002
TYPOGRAPHIC/PHOTOGRAPHIC
GRAPHIC DESIGN**

The use of typography (rather than visual imagery) as the primary design form in solving graphic design communication problems. Prerequisite: VCD 30009.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 43003 CORPORATE
IDENTITY/GRAPHIC DESIGN**

Use of graphic design forms (typography, photography and illustration) in the development of corporate identification for total advertising programs. Prerequisite: VCD 30009.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 43004 ISSUES FOR GRAPHIC
DESIGN BUSINESSES**

Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry. Prerequisite: VCD 30009.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Visual Communication Design

**VCD 43005 3-D GRAPHIC DESIGN-
DIRECT MAIL/PACKAGING/POINT
PURCHASE**

Use of typography and visual images, photography and illustrations in the structure of information for communication on 3D surfaces: direct mail, packaging and point of purchase display. Prerequisite: VCD 30009.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 43006 ENVIRONMENTAL GRAPHIC
DESIGN**

Aims at coordinating architectural planning, interior design systems analysis and graphic communications. Prerequisite: none.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 43007 INFORMATION GRAPHICS

introduction to shapes, color type and combinations of these for computer-designed news graphics; maps, charts, graphs and diagrams. Prerequisites: JMC

20004 and JMC 20007; and VCD 13001 or VCD 27001.
3.000 Credit hours
3.000 Lecture hours
2.000 Lab hours
Level: Undergraduate
Schedule Types: Laboratory, Lecture
Department: Visual Communication Design

**VCD 43051 EXPERIMENTAL
TYPOGRAPHY**

Investigation of form, pattern and texture in typographic usage. Emphasis on linking traditional letterform, technology and computer generated forms. Repeatable for a total of 12 credit hours. Prerequisite: VCD 30009 with minimum (3.0) grade.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 44001 PACKAGING AND
EXHIBITION DESIGN**

Study and design of containers, packaging systems and exhibits in relation to particular function including merchandising, learning and recreation. Prerequisite: None.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 45000 GRAPHIC DESIGN
PERSPECTIVES**

Comprehensive exploration of design through history. Topics include the early alphabet, print processes, illustration, photography, corporate design, modern design and digital processes. Prerequisites: visual communication design major and junior standing.
3.000 Credit hours
3.000 Lecture hours
Level: Undergraduate
Schedule Types: Lecture
Department: Visual Communication Design
Course Attributes: Writing Intensive Course

**VCD 46000 WEB DESIGN AND
PROGRAMMING I**

Course focus is on Web concepts and high-quality Web design; CS and VCD principles, tools, architecture, presentation, design and creation of websites through teamwork. Course is jointly taught by Computer Science and Visual Communication Design. Prerequisites: CS 10051 and VCD 13001.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

**VCD 46001 WEB DESIGN AND
PROGRAMMING II**

An elective course jointly taught by computer science and VCD on advanced web technologies and multimedia web design: web servers, security, advanced design, java servlets, applets, database

connectivity, site maintenance, relation of actual websites by teamwork. Prerequisite: VCD 46000.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

VCD 46003 DIGITAL TYPOGRAPHY

Applying typographic rules in digital environments. Organizing large amount of text in complex architectures and designing viewer controlled space. Exploration of dynamic information sound and motion sequences. Prerequisite: VCD 23001 or VCD 27001 or VCD 37001.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

**VCD 46053 WEB DESIGN AND
PROGRAMMING STUDIO**

A joint CS and VCD project course exploring advanced aspects of web design and programming. Student may pursue individually defined projects or team projects for real clients. Limited enrollment. Prerequisite: VCD 46001.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

VCD 48005 COLOR PHOTOGRAPHY

The discipline of color photography is explored through a range of lectures, assignments and critiques. Prerequisite: VCD 38003 and VCD 38004.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

**VCD 48007 PHOTO ILLUSTRATION
TECHNIQUES**

Creative photography for advertising and editorial uses. Art director/photographer relationship stressed in given assignments. Critique by professional in addition to academic evaluation. Prerequisites: VCD 38003 and VCD 38004 and VCD 48005; and photo illustration (PHOI) or visual communication design (VCD) major.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 48009 FASHION PHOTOGRAPHY

Instruction in studio lighting, filters special effects. Emphasis on editorial and advertising fashion photography. Studio and location assignments. Prerequisites: VCD 38003 and VCD 38004 and VCD 48005; and photo illustration (PHOI) or visual communication design (VCD) major.



3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 48092 PRACTICUM IN PHOTOGRAPHY

(repeatable for a total of 10 hours)
individual or group investigation into student selected areas of photographic field.
Prerequisites: junior or senior standing; and photo illustration (PHOI) or visual communication design (VCD) major.
1.000 TO 3.000 Credit hours
7.000 TO 21.000 Other hours
Level: Undergraduate
Schedule Types: Practicum
Department: Visual Communication Design

VCD 49098 SENIOR RESEARCH PROPOSAL: GRAPHIC DESIGN AND ILLUSTRATION

Research proposal must be approved by a faculty committee before project is started. Research paper or project must meet the educational and professional criteria of the program. Prerequisite: Senior standing.
1.000 Credit hours
1.000 Other hours
Level: Undergraduate
Schedule Types: Research
Department: Visual Communication Design

VCD 49198 SENIOR RESEARCH PAPER: GRAPHIC DESIGN/ILLUSTRATION

Written documentation of a senior project in graphic design or illustration. If VCD 49199 Senior Project Graphic Design/Illustration is chosen, it must be taken concurrently with Senior Research paper and presented for final review by a faculty committee.
Prerequisites: senior standing and VCD 49098.
2.000 Credit hours
2.000 Other hours
Level: Undergraduate
Schedule Types: Research
Department: Visual Communication Design
Course Attributes: Writing Intensive Course

VCD 49199 SENIOR PROJECT: GRAPHIC DESIGN/ILLUSTRATION

A final visual project in graphic design or illustration structured by a senior (with approval by faculty committee), completed independently and presented for review and evaluation by a faculty committee during final semester before graduation.
Prerequisite: Senior standing; and photo illustration (PHOI) or visual communication design (VCD) major; and special approval.
3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Senior Project/Honors Thesis
Department: Visual Communication Design

VCD 50000 BASIC COMPUTER GRAPHIC DESIGN/ILLUSTRATION

An introduction to the use of the computer as a tool in graphic design and illustration. Exploration of the relationship and

integration of various hardware configurations and software solutions to meet the demands of today's designers illustrators. Prerequisite: Graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

VCD 50003 INTERMEDIATE COMPUTER DESIGN-GD & I VARIOUS SOFTWARE

Addresses the issues of page layout and design, digital manipulation and vector graphic illustration for graphic design professionals. Prerequisites: visual communication design (VCD) majors and graduate standing.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

VCD 50025 PROFESSIONAL PORTFOLIO IN GRAPHIC DESIGN AND ILLUSTRATION

Develop a professional portfolio in graphic design and/or illustration through selection and refinement of previously completed classroom work/development of projects in areas of deficiency with emphasis on organization and presentation. Repeatable with special approval. Prerequisite: Graduate standing.
1.000 Credit hours
1.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 50052 GRAPHIC DESIGN-TRAVEL AND FIELD EXPERIENCE

Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience. Repeatable for a total of 16 credit hours. Prerequisite: graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 50053 GRAPHIC DESIGN STUDIO-GLYPHIX

Professional experience through an internal design studio. Involves responsibilities and procedures for the production of communication materials for off campus clients including nonprofit organizations charities arts groups and selected on campus groups and departments. Repeatable for a total of 12 credit hours. Prerequisite: Graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 50092 INTERNSHIP-GRAPHIC DESIGN AND ILLUSTRATION

Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through a real job situation. Prerequisite: Graduate standing.
1.000 TO 6.000 Credit hours
6.000 Other hours
Level: Graduate
Schedule Types: Practicum
Department: Visual Communication Design

VCD 50095 SPECIAL TOPICS GRAPHIC DESIGN/ILLUSTRATION

To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Primarily used to fulfill electives in graphic design or illustration. Repeatable for a total of 16 credit hours. Prerequisite: Graduate standing.
1.000 TO 4.000 Credit hours
4.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 50193 VARIABLE TITLE WORKSHOP IN VISUAL COMMUNICATION DESIGN

Workshop setting dealing with intensive examination of special topics in VCD. May be repeated. Prerequisite: graduate standing.
1.000 TO 3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Workshop
Department: Visual Communication Design

VCD 50195 SELECTED TOPICS GRAPHIC DESIGN AND ILLUSTRATION

Variable topics related to graphic design and illustration. Prerequisite: Graduate standing.
1.000 TO 4.000 Credit hours
4.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Visual Communication Design

VCD 52000 ADVANCED ILLUSTRATION/MEDIA

Discussions and practice of media and grounds as they pertain to the illustration field. Discussion will also center around the problems in developing work of reproduction. Prerequisite: visual communication design (VCD) major and graduate standing.
3.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 52002 EDITORIAL ILLUSTRATION

Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended



audience. Prerequisite: visual communication design (VCD) major and graduate standing.
3.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 52003 ADVERTISING ILLUSTRATION

Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience. Prerequisite: visual communication design (VCD) major and graduate standing.
3.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 52004 COMPUTER ILLUSTRATION

An introductory course on the use of the computer as an illustration tool. The class will cover the necessary computer applications for advertising, editorial and book illustration. Prerequisite: Graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 52051 CALLIGRAPHY AND LAYOUT

Development of creative techniques and technical proficiency in calligraphy as applied to illustration and graphic design. Prerequisite: Graduate standing.
2.000 Credit hours
2.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 53000 ADVANCED STUDIO SKILLS/GRAPHIC DESIGN AND ILLUSTRATION-ELECTRONIC PREPRESS PRODUCTION

A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. This material is presented through a series of lectures, demos, written tests and field trips. Prerequisite: VCD 50003 and graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Visual Communication Design

VCD 53001 ADVANCED KINETIC AND SEQUENTIAL GRAPHIC DESIGN

The exploration of the use of the computer in kinetic and sequential graphic design, 3D modeling and sound. Prerequisites: visual communication design and graduate standing.

3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 53002 TYPOGRAPHIC/PHOTOGRAPHIC GRAPHIC DESIGN

The use of typography (rather than visual imagery) as the primary design form in solving graphic communication problems. Prerequisite: visual communication design and graduate standing.
3.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 53003 CORPORATE IDENTITY/GRAPHIC DESIGN

Use of graphic design forms (typography, photography and illustration) in the development of corporate identification for total advertising programs. Prerequisite: visual communication design (VCD) major and graduate standing.
3.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 53004 ISSUES FOR GRAPHIC DESIGN BUSINESSES

Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry. Prerequisite: visual communication design (VCD) major and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Visual Communication Design

VCD 53005 3-D GRAPHIC DESIGN-DIRECT MAIL/PACKAGING/POINT PURCHASE

Use of typography and visual images, photography and illustrations, in the structure of information for communication on three-dimensional surfaces: direct mail, packaging and point of purchase display. Prerequisite: visual communication design and graduate standing.
3.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 53006 ENVIRONMENTAL GRAPHIC DESIGN

Aims at coordinating architectural planning, interior design systems analysis and graphic communications. Also includes and individually directed research component. Prerequisite: Graduate standing.
3.000 Credit hours
3.000 Other hours
Level: Graduate
Schedule Types: Studio

Department: Visual Communication Design

VCD 53007 INFORMATION GRAPHICS

Introduction to shapes, color, type and combinations of these for computer-designed news graphics; maps, charts, graphs and diagrams. Prerequisite: Graduate standing.
2.000 Credit hours
2.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Visual Communication Design

VCD 53051 EXPERIMENTAL TYPOGRAPHY

Investigation of form, pattern and texture in typographic usage. Emphasis on linking traditional letterform technology and computer generated forms. Prerequisite: visual communication design (VCD) major and graduate standing.
3.000 Credit hours
5.000 Other hours
Level: Graduate
Schedule Types: Studio
Department: Visual Communication Design

VCD 55000 GRAPHIC DESIGN PERSPECTIVES

Comprehensive exploration of design through history. Topics include the early alphabet, print processes, illustration, photography, corporate design, modern design and digital processes. Prerequisite: visual communication design (VCD) and graduate standing.
3.000 Credit hours
3.000 Lecture hours
Level: Graduate
Schedule Types: Lecture
Department: Visual Communication Design

VCD 56000 WEB DESIGN AND PROGRAMMING I

Course focus is on web concepts and high quality web design; CS and VCD principles, tools, architecture, presentation, design and creation of websites through teamwork. Course is jointly taught by CS and VCD. Prerequisites: visual communication design (VCD) major and graduate standing.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate
Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

VCD 56001 WEB DESIGN AND PROGRAMMING II

Advanced course in web technologies and multimedia web design: web servers, security, advanced design, java servlets, applets, database connectivity, site maintenance, relation of actual websites by teamwork. Course is jointly taught by CS and VCD. Prerequisites: visual communication design (VCD) major and graduate standing.
3.000 Credit hours
2.000 Lecture hours
2.000 Lab hours
Level: Graduate



Schedule Types: Combined Lecture/Lab
Department: Visual Communication Design

VCD 56003 DIGITAL TYPOGRAPHY

Applying typographic rules in digital environments. Organizing large amount of text in complex architectures and designing viewer controlled space. Exploration of dynamic information, sound and motion sequences. Prerequisite: Graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Visual Communication Design

VCD 56005 VISUAL FORM AND KINETICS GRAPHICS

Visual communication design (VCD) course on intermediate to advanced layout techniques focusing on kinetic graphics and video. Emphasis on creating specific messages with form typography, color, space and sound. Prerequisite: Graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Visual Communication Design

VCD 56053 WEB DESIGN AND PROGRAMMING STUDIO

A joint (CS) and (VCD) project course exploring advanced aspects of web design and programming. Student may pursue individually defined projects or team projects for real clients. Limited enrollment. Prerequisite: visual communication design and graduate standing.

3.000 Credit hours

1.000 Lecture hours

4.000 Lab hours

Level: Graduate

Schedule Types: Combined Lecture/Lab

Department: Visual Communication Design

VCD 60009 CANDIDACY REVIEW/GRAPHIC DESIGN AND ILLUSTRATION

A formal review of the work completed in the first 12 semester credit hours of graphic design and/or illustration courses for both M.F.A. and M.A. Prerequisite: graduate standing.

1.000 Credit hours

1.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Visual Communication Design

VCD 60020 GRADUATE STUDIO IN VISUAL COMMUNICATION DESIGN

(Repeatable for a total of 6 credit hours)

Research based, hands-on studio course providing a context for collaborative and individual projects in design, illustration and/or photography. Prerequisite: visual communication design (VCD) major and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Visual Communication Design

VCD 60053 GRAPHIC DESIGN STUDIO MANAGEMENT-GLYPHIX

Professional studio management experience through internal design studio-glyphix. Involves responsibilities for coordinating undergraduate student designers, clients and vendors. Oversight of scheduling production and quality control. Repeatable for a total of 12 credit hours.

Prerequisite: Graduate standing.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Visual Communication Design

VCD 60091 GRADUATE SEMINAR IN VISUAL COMMUNICATION DESIGN

(Repeatable for credit) Focuses on design theory and research methodologies pertaining to design. Content consists mostly of readings, discussions and student presentations. Prerequisite: visual communication design (VCD) major and graduate standing.

3.000 Credit hours

3.000 Other hours

Level: Graduate

Schedule Types: Seminar

Department: Visual Communication Design

VCD 60094 COLLEGE TEACHING IN VISUAL COMMUNICATION DESIGN

For VCD student teaching or who anticipate teaching in higher education. This experience also supports future careers in management, art direction and instructional roles in industry. Discussions include grading, critiques, classroom management and evaluation techniques. Prerequisite: graduate standing.

3.000 Credit hours

3.000 Lecture hours

Level: Graduate

Schedule Types: Lecture

Department: Visual Communication Design

VCD 60095 SPECIAL TOPICS IN GRAPHIC DESIGN/ILLUSTRATION

To broaden course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Used to fulfill primary studio requirements in graphic design and or illustration. Repeatable for a total of 16 credit hours. Prerequisite: Graduate standing.

1.000 TO 4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Studio

Department: Visual Communication Design

VCD 60096 INDIVIDUAL INVESTIGATION IN GRAPHIC DESIGN AND ILLUSTRATION

Individual investigation related to topics of graphic design and illustration approved and under the direction of a faculty member. Prerequisite: Graduate standing.

1.000 TO 16.000 Credit hours

1.000 TO 16.000 Other hours

Level: Graduate

Schedule Types: Individual Investigation

Department: Visual Communication Design

VCD 60098 RESEARCH

Independent research under the direction of a faculty member in the division of design/illustration. Prerequisite: graduate standing.

1.000 TO 15.000 Credit hours

15.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Visual Communication Design

VCD 60099 M.A. PROJECT GD AND I

A research project for non-thesis option M.A. students approved in consultation with the faculty adviser which culminates in a visual project exhibition and formal presentations. Prerequisite: graduate standing.

4.000 Credit hours

4.000 Other hours

Level: Graduate

Schedule Types: Research

Department: Visual Communication Design

VCD 68199 M.A.THESIS I

Thesis students must register for a minimum of 6 hours, 2-6 hours in a single semester or distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Visual Communication Design

VCD 68299 M.A.THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: VCD 68199 and graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Visual Communication Design

VCD 69199 M.F.A. THESIS I

Thesis students must register for a minimum of 6 hours; 2 -6 hours in a single semester or distributed over several semesters if desired. Prerequisite: Graduate standing.

2.000 TO 6.000 Credit hours

6.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis

Department: Visual Communication Design

VCD 69299 M.F.A. THESIS II

Thesis students must continue registration each semester until all degree requirements are met. Prerequisite: VCD 69199 and graduate standing.

2.000 Credit hours

2.000 Other hours

Level: Graduate

Schedule Types: Master's Thesis



Department: Visual Communication Design

Viticulture (VIN)

VIN 10500 MOLECULAR PRINCIPLES IN GRAPE AND WINE

Covers the basic chemistry involved in the wine and winemaking process. Includes basic understanding of the chemistry involved in the fermentation process, flavor, aroma and color of wine. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

VIN 11100 INTRODUCTION TO VITICULTURE AND VINEYARD ESTABLISHMENT

Introduces students to current practices for establishing a commercial vineyard and maintaining its health and productivity once established. Topics covered include varietal selection, site preparation, equipment, site selection, first season establishment, vine growth development and training, trellis systems, vine propagation, weed control and vine disease control. Field practicum sessions consisting of 16 hours of hands-on experience is scheduled in area vineyards. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

VIN 11392 WINTER VITICULTURE PRACTICUM

Provides students initiated in the field of viticulture practical experience in winter vineyard operations. Students are required to partner with an approved vineyard to participate in the required field experience portion of the course, which serves as work experience for those seeking employment in commercial viticulture. Prerequisite: VIN 11100.

2.000 Credit hours

1.000 Lecture hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Practicum

Department: Regional College

VIN 11492 SPRING VITICULTURE PRACTICUM

Designed to provide students initiated in the field of viticulture practical experience in spring vineyard operations. Students are required to partner with an approved vineyard to participate in the required field experience portion of the course. Prerequisite: VIN 11100.

2.000 Credit hours

1.000 Lecture hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Practicum

Department: Regional College

VIN 11592 SUMMER/FALL VITICULTURE PRACTICUM

Provides viticulture students practical experience in summer and fall vineyard operations. Students are required to partner with an approved vineyard to participate in the required field experience portion of the course, which serves as work experience for those seeking employment in commercial viticulture. Prerequisite: VIN 11100.

2.000 Credit hours

1.000 Lecture hours

2.000 Other hours

Level: Undergraduate

Schedule Types: Lecture, Practicum

Department: Regional College

VIN 14600 INTRODUCTION TO ENOLOGY

Targets people who became interested in home winemaking with possibilities to grow into the small business opportunity, as well as cellar employees interested in winemaking career. During this course, students build proper basic understanding of winemaking which alleviates common home winemaker's errors. Prerequisite: special approval.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

VIN 14800 WINERY SANITATION

The basic science and technology of winery sanitation that includes an introduction to wine microbiology. Covers all methods used for winery sanitation including premises, tanks, pumps, filters, oak barrels and sampling equipment, including but not limited to chemical agents, reagents and thermal treatments leading to sterile bottling. Environmental issues and compliance are also addressed. Prerequisite: VIN 14600.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

VIN 16000 WINERY EQUIPMENT OPERATION

Covers process technologies and process systems used in modern commercial wineries. Includes lectures, demonstrations and a two-day workshop. Overview of winemaking systems, including work place safety, cleaning and sanitation procedures, winemaking equipment and materials, tanks, barrels and barrel alternatives, filtration systems and bottling equipment. Also touches upon on chillers and electrical needs. Prerequisite: VIN 14600.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

VIN 21000 INTRODUCTION TO WINE MICROORGANISMS

Introduction to the basic principles of wine microbiology and the variety of microorganisms frequently encountered in the wine making process. Yeasts, bacteria and molds play vital roles in the production of wine, both beneficial and harmful.

Students become familiar with the morphology, reproduction and sensory attributes of wine microorganisms in order to understand their influence on winemaking and to be able to manage them effectively. Prerequisite: VIN 14600.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

VIN 21100 INTEGRATED PEST MANAGEMENT

Effective grape production depends on the grower developing a system of grape management that is appropriate for each vineyard. Decisions need to be made for how to manage all of the normal cultural practices such as planting, fertility, harvesting and pruning, as well as managing the insect, disease and weed problems that occur either regularly or sporadically. Course addresses management issues related to common, expected pest problems, as well as the occasional appearance of minor pest problems. Prerequisite: none.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

VIN 21300 REGIONAL VINEYARD MANAGEMENT

A general study of vineyard management applicable to the Mid-America region. Covers management of the mature vineyard and builds on the topics. Prerequisite: VIN 11100.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

VIN 24600 INTERMEDIATE ENOLOGY

Built on the fundamentals of science and technology of winemaking practices taught in VIN 14600. Students understand how the winemaking process works and learn the scientific background for major decisions made during the process of winemaking. At course completion, students understand winemaking calculations necessary for accurate, precise and safe additions to the wine. Prerequisite: VIN 14600.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

**VIN 25792 FALL WINE PRODUCTION INTERNSHIP**

Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries. Prerequisites: VIN 14600 and 14800 and 16000 and 24600. 3.000 Credit hours 8.530 Other hours Level: Undergraduate Schedule Types: Practicum Department: Regional College

VIN 25992 CELLAR OPERATIONS INTERNSHIP

Provide students initiated in the field of enology with actual and practical exposure to the technology of wine making as is performed during the passive vineyard periods associated with winter. Students are expected to improve their understanding of the methods and science involved by on-site participation in each of the various activities associated with finished wine production. Course serves as actual practical exposure and may qualify as experience for those seeking employment in commercial enology. Prerequisite: VIN 25792. 2.000 Credit hours 4.260 Other hours Level: Undergraduate Schedule Types: Practicum Department: Regional College

VIN 26600 SENSORY EVALUATION

Intended for those individuals who need to develop an understanding of the principles of sensory evaluation used in commercial wine making. It also benefits wine enthusiasts interested in reaching advanced levels of appreciation, as well wine producers, wine merchants and enologists, who by the nature of their profession need to discern flavors and establish tasting benchmarks. Students practice sensory analysis at home and in workshops to further their sensory evaluation skills and techniques. Prerequisite: VIN 14600. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

VIN 26800 WINE AND MUST ANALYSIS

Principles of grape juice and wine analysis and the reasons for use of each analysis. Analyses of a practical and useful nature are chosen for the laboratory exercises demonstrating various chemical, physical and biochemical methods. Students participate in workshops and hands-on experiences at participating wineries. Prerequisite: VIN 14600. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate

Schedule Types: Lecture
Department: Regional College

VIN 29300 SOILS FOR VITICULTURE

Explores soil properties and behavior and their influence on wines. Focuses not only on growth and production, but on the long-term effects of viticulture on soil quality and the wider environment. Prerequisite: none. 3.000 Credit hours 3.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

Veterinary Technology (VTEC)**VTEC 10001 INTRODUCTION TO VETERINARY TECHNOLOGY**

Introduction to veterinary technician's career: medical terminology, career choices, occupational safety, human-animal bond, pet loss, euthanasia, animal husbandry and basic nutrition, breed identification, basic animal behavior. Prerequisite: None. 2.000 Credit hours 2.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

VTEC 10002 VETERINARY NURSING I

Introduction to animal nursing: record keeping, kennel sanitation, animal restraint, syringe and needle identification/handling, injection techniques, physical exams, grooming and administration of medications. Lecture two hours, laboratory 3 hours weekly. Prerequisite: Veterinary technology (VTEC) major. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Combined Lecture/Lab Department: Regional College

VTEC 10204 CLINICAL LABORATORY I

Introduction to clinical laboratory: equipment and equipment maintenance; internal and external parasites; urinalysis. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: Veterinary technology (VTEC) major. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Combined Lecture/Lab Department: Regional College

VTEC 10205 VETERINARY NURSING II

Clinical application off-site. Emphasis on skills from VTEC 10002; physical exam, medications, blood vessels catheterization, venipuncture; fluid therapy, wound care, patient rehabilitation and physical therapy, first aid, bandaging and CPR. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: Minimum grade of C (2.0) in all prerequisites; BSCI 10100 and CHEM 10050 and HED 14020 and VTEC 10002

and VTEC 10204; and pre- or corequisite VTEC 10001.

3.000 Credit hours
3.000 Other hours
Level: Undergraduate
Schedule Types: Combined Lecture/Lab
Department: Regional College

VTEC 10206 PHARMACOLOGY

Regulations controlling the use of drugs and biological classifications and mechanisms of action of pharmaceuticals, dosage calculations, labeling, packaging and dispensing of veterinary products. Lecture 2 hours weekly. Prerequisite: BSCI 10100 and BSCI 10110 and CHEM 10052 and CHEM 10053 and HED 14020 and VTEC 10001 and VTEC 10002 and VTEC 10204; pre- or corequisite: VTEC 10205. 2.000 Credit hours 2.000 Lecture hours Level: Undergraduate Schedule Types: Lecture Department: Regional College

VTEC 20008 CLINICAL LABORATORY II

Continuation and application of laboratory skills from Clinical Laboratory I; hematology, serology, cytology and other laboratory skills. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: minimum grade of C (2.0) in all prerequisites; BSCI 10100 and CHEM 10050 and VTEC 10002 and VTEC 10204; pre- or corequisites: VTEC 10001 and VTEC 10205. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Combined Lecture/Lab Department: Regional College

VTEC 20009 VETERINARY NURSING III

Continuing nursing skills/techniques emphasizing large animal species: restraint, venipuncture, behavior, breeds, feedstuffs, food safety, meds, preventive care, surgical procedures, lameness. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008; and pre- or corequisite: VTEC 10206. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Combined Lecture/Lab Department: Regional College

VTEC 20010 IMAGING TECHNIQUES

Principles and application of the production of X-rays, processing, radiation safety, storage, patient positioning and other imaging techniques. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10100 and BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008; and pre- or corequisite: VTEC 10206. 3.000 Credit hours 3.000 Other hours Level: Undergraduate Schedule Types: Combined Lecture/Lab



Department: Regional College

VTEC 20212 SURGERY AND ANESTHESIA

Principles and application of the use of anesthetics, patient monitoring, dental prophylaxis, pre-surgery preparation, post-surgical patient care, sterilization, surgical preparation and assisting and equipment maintenance. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: minimum grade of C (2.0) in all prerequisites; BSCI 10100 and BSCI 10110 and CHEM 10052 and CHEM 10053 and VTEC 10001 and VTEC 10002 and VTEC 10204 and VTEC 10205 and VTEC 20008; and pre- or corequisite: VTEC 10206.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

VTEC 20213 NUTRITION AND DISEASE

Principles of the disease process, disease control and prevention of common diseases of domestic animals. Nutrition principles especially for clinical diseases will be covered. Lecture 2 hours weekly.

Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

2.000 Credit hours

2.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Regional College

VTEC 20214 VETERINARY NURSING AND HOSPITAL PROCEDURES

Nursing procedures for laboratory and animal exotic procedures; procedures by a veterinary technician in a hospital environment including office and computer application. Lecture 1 hour, laboratory 6 hours weekly including computer applications. Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Combined Lecture/Lab

Department: Regional College

VTEC 20392 PRACTICUM IN VETERINARY HOSPITAL

Students gain practical experience in veterinary clinic or approved clinical site to focus on mastery of all clinical skills needed for this career. Prerequisite: BSCI 20021 and VTEC 20009 and VTEC 20010 and VTEC 20212. Corequisites: VTEC 20213 and VTEC 20214.

5.000 Credit hours

5.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Regional College

Women's Studies (WMST)

WMST 20095 SPECIAL TOPICS IN WOMEN'S STUDIES

Study of particular contemporary figures, events and social practices or phenomenon as they relate to women's studies. This includes women and war, women and work, and women and interpersonal violence. Repeated registration permitted when topic varies. Prerequisite: None.

1.000 TO 5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

WMST 20193 VARIABLE TITLE WORKSHOP IN WOMEN'S STUDIES

Workshop focused on a specific topic within women's studies. Repeated registration permitted. Prerequisite: None.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Arts and Sciences

WMST 30000 COLLOQUIUM IN WOMEN'S STUDIES

A critical investigation of the position and category of women from a cross-cultural, historical and interdisciplinary perspective with special emphasis on major themes and issues in women's studies. Issues including race, ethnicity and sexuality will be addressed. Prerequisite: Junior standing.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

Course Attributes: Diversity Course-Domestic

WMST 30001 FEMINIST THEORY

An examination of important historical and contemporary works of feminist theory, and their influence on the development of feminist thought and practice in the U.S. and worldwide. Issues including race, ethnicity and sexuality will be addressed. Prerequisite: junior standing; and ENG 21002 or ENG 33013 or ENG 33014 or COMM 35912 or WMST 20095 or WMST 30000 or WMST 30095 or WMST 30100 or PHIL 31040 or JUS 37411 or PAS 33110 or PAS 37100 or PAS 37200 or HIST 31075 or GER 41332 or POL 40470 or SOC 42315.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

WMST 30095 SPECIAL TOPICS IN WOMEN'S STUDIES II

Study of selected topics in women's studies organized around historical and theoretical issues and movements. This includes contemporary feminist theory, suffragist movement and third wave feminism. Repeated registration permitted when topic varies. Prerequisite: None.

1.000 TO 5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

WMST 30100 HISTORY OF WOMEN IN THE UNITED STATES

An exploration of the political, economic, social, intellectual, and cultural forces that have shaped women's lives, women's thought, perceptions of womanhood, and feminism for 1607 to the present in what is now the United States. Prerequisite: none.

3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

WMST 30196 WOMEN STUDIES INDIVIDUAL INVESTIGATION

The design and completion of a scholarly research project related to women's studies, and the presentation of findings at the end of the term. Typically a capstone course for those completing the women's studies minor. Arrangements must be made in the semester prior to registration.

Prerequisite: Special approval of faculty member and department.

1.000 TO 3.000 Credit hours

3.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

WMST 40095 SPECIAL TOPICS IN WOMEN'S STUDIES III

Repeated registration permitted when topic varies. Informed study of critical issues in women's studies from an international or global perspective. Prerequisite: WMST 30000 or WMST 30001.

1.000 TO 5.000 Credit hours

5.000 Lecture hours

Level: Undergraduate

Schedule Types: Lecture

Department: Arts and Sciences

WMST 40193 VARIABLE TITLE WORKSHOP IN WOMEN'S STUDIES

Workshop focused on a specific topic within women's studies. Repeated registration permitted. Prerequisite: None.

1.000 TO 6.000 Credit hours

6.000 Other hours

Level: Undergraduate

Schedule Types: Workshop

Department: Arts and Sciences

WMST 40992 PRACTICUM IN WOMEN'S STUDIES

An assignment at a private, public or nonprofit organization that centers on women's issues such as education health and policy making. Arrangements must be made in the semester prior to registration. Prerequisite: Permission.

3.000 Credit hours

3.000 Other hours

Level: Undergraduate

Schedule Types: Practicum

Department: Arts and Sciences