

Kent State University

# Course Descriptions

Fall 2010

Abbreviation	Department	
<u>ACCT</u>	Accounting	1
<u>ACTT*</u>	Accounting Technology	2
<u>ADED</u>	Adolescent/Adult Education	2
<u>AMRT*</u>	Aviation Maintenance Technology	3
<u>AMST*</u>	American Studies	3
<u>ANTH</u>	Anthropology	3
<u>ARCH</u>	Architecture	7
<u>ARAB</u>	Arabic	8
<u>ART</u>	Art	9
<u>ARTC</u>	Art Crafts	9
<u>ARTE</u>	Art Education	11
<u>ARTF</u>	Art Fine Arts	11
<u>ARTH</u>	Art History	13
<u>AS</u>	Arts and Sciences	14
<u>ASL</u>	American Sign Language	15
<u>ASTU</u>	Aerospace Studies	16
<u>ATTR</u>	Athletic Training	16
<u>BMRT*</u>	Business Management and Related Technologies	18
<u>BSCI</u>	Biological Sciences	19
<u>BTEC</u>	Biotechnology	22
<u>BUS</u>	Business Administration Interdisciplinary	23
<u>CA</u>	College of the Arts	23
<u>CACM</u>	Center for Applied Conflict Management	23
<u>CADT*</u>	Computer Design and Animation Engineering Technology	24
<u>CCI</u>	College of Communication and Information	24
<u>CHDS</u>	Counseling and Human Development Services	24
<u>CHEM</u>	Chemistry	25
<u>CHIN</u>	Chinese	28
<u>CI</u>	Curriculum and Instruction	28
<u>CLAS</u>	Classics	29
<u>CLS</u>	Clinical Laboratory Sciences	29
<u>COMM</u>	Communication Studies	30
<u>COMT*</u>	Computer Technology	32
<u>CS</u>	Computer Science	33
<u>CTTE</u>	Career Technical Teacher Education	35
<u>CULT</u>	Cultural Foundations	36
<u>DAN</u>	Dance	37
<u>ECED</u>	Early Childhood Education	39
<u>ECET*</u>	Early Childhood Education Technology	40
<u>ECON</u>	Economics	41
<u>EDAD</u>	Educational Administration	42
<u>EDUC</u>	Education	42
<u>EERT*</u>	Electrical/Electronic and Related Engineering Technologies	43
<u>EIRT*</u>	Engineering of Information Technology	44
<u>ENG</u>	English	44
<u>ENTR</u>	Entrepreneurship	49
<u>ENVT*</u>	Environmental Technologies	50
<u>EPSY</u>	Educational Psychology	50
<u>EXPR</u>	Experimental Programs	50
<u>EXSC</u>	Exercise Science	51
<u>FDM</u>	Fashion Design and Merchandising	51
<u>FIN</u>	Finance	55

<b>FR</b>	French	<b>56</b>
<b><u>GEOG</u></b>	Geography	<b>57</b>
<b><u>GEOL</u></b>	Geology	<b>59</b>
<b><u>GER</u></b>	German	<b>61</b>
<b><u>GERO</u></b>	Gerontology	<b>62</b>
<b><u>GRE</u></b>	Greek	<b>62</b>
<b><u>HDFS</u></b>	Human Development and Family Studies	<b>63</b>
<b><u>HEBR</u></b>	Hebrew	<b>64</b>
<b><u>HED</u></b>	Health Education	<b>64</b>
<b><u>HIST</u></b>	History	<b>66</b>
<b><u>HM</u></b>	Hospitality Management	<b>69</b>
<b><u>HONR</u></b>	Honors	<b>71</b>
<b><u>HORT*</u></b>	Horticulture Technology	<b>72</b>
<b><u>HRTG</u></b>	Heritage Languages	<b>73</b>
<b><u>HST*</u></b>	Human Services Technology	<b>73</b>
<b><u>HTMT*</u></b>	High Technology Manufacturing Technology	<b>73</b>
<b><u>IAKM</u></b>	Information Architecture and Knowledge Management	<b>74</b>
<b><u>ID</u></b>	Interior Design	<b>74</b>
<b><u>IERT*</u></b>	Industrial Engineering and Related Technologies	<b>75</b>
<b><u>IHS</u></b>	Integrated Health Studies	<b>76</b>
<b><u>ILS</u></b>	Integrated Life Sciences	<b>76</b>
<b><u>ITAL</u></b>	Italian	<b>76</b>
<b><u>ITAP*</u></b>	Information Technology for Administrative Professionals	<b>77</b>
<b><u>ITEC</u></b>	Instructional Technology	<b>78</b>
<b><u>JAPN</u></b>	Japanese	<b>78</b>
<b><u>JMC</u></b>	Journalism and Mass Communication	<b>79</b>
<b><u>JUS</u></b>	Justice Studies	<b>84</b>
<b><u>KBA</u></b>	Kent Blossom Art (KBA, KBM and KBT)	<b>86</b>
<b><u>LAT</u></b>	Latin	<b>87</b>
<b><u>LEGT*</u></b>	Legal Assisting Technology	<b>87</b>
<b><u>LIB</u></b>	University Libraries	<b>88</b>
<b><u>LIS</u></b>	Library and Information Sciences	<b>88</b>
<b><u>MATH</u></b>	Mathematics	<b>88</b>
<b><u>MCED</u></b>	Middle Childhood Education	<b>92</b>
<b><u>MCLS</u></b>	Modern and Classical Languages	<b>93</b>
<b><u>MERT*</u></b>	Mechanical Engineering and Related Technologies	<b>94</b>
<b><u>MFGT*</u></b>	Manufacturing Engineering Technology	<b>94</b>
<b><u>MIS</u></b>	Management and Information Systems	<b>95</b>
<b><u>MKTG</u></b>	Marketing	<b>97</b>
<b><u>MMTG</u></b>	Managerial Marketing	<b>98</b>
<b><u>MSCI</u></b>	Military Science	<b>98</b>
<b><u>MUS</u></b>	Music	<b>99</b>
<b><u>NRST*</u></b>	Nursing Technology	<b>105</b>
<b><u>NURS</u></b>	Nursing	<b>105</b>
<b><u>NUTR</u></b>	Nutrition and Dietetics	<b>107</b>
<b><u>OCAT*</u></b>	Occupational Therapy Assistant Technology	<b>108</b>
<b><u>OIA</u></b>	Office of International Affairs	<b>109</b>
<b><u>PAS</u></b>	Pan-African Studies	<b>109</b>
<b><u>PEB</u></b>	Physical Education-Basic	<b>112</b>
<b><u>PEP</u></b>	Physical Education-Professional	<b>113</b>
<b><u>PH</u></b>	Public Health	<b>115</b>
<b><u>PHIL</u></b>	Philosophy	<b>116</b>
<b><u>PHY</u></b>	Physics	<b>118</b>

<u>PLCT*</u>	Plastics Technology	120
<u>POL</u>	Political Science	120
<u>PORT</u>	Portuguese	123
<u>PSYC</u>	Psychology	123
<u>PTST*</u>	Physical Therapist Assistant Technology	125
<u>RADT*</u>	Radiologic Technology	125
<u>RHAB</u>	Rehabilitation Counseling	127
<u>RIS*</u>	Radiologic and Imaging Sciences	127
<u>RPTM</u>	Recreation, Park and Tourism Management	130
<u>RTT*</u>	Respiratory Therapy Technology	131
<u>RUSS</u>	Russian	132
<u>SEED</u>	Secondary Education	133
<u>SOC</u>	Sociology	134
<u>SPA</u>	Speech Pathology and Audiology	136
<u>SPAD</u>	Sport Administration	137
<u>SPAN</u>	Spanish	138
<u>SPED</u>	Special Education	139
<u>SVCD</u>	Summer Visual Communication Design	142
<u>TECH</u>	Technology	142
<u>THEA</u>	Theatre	150
<u>TRST</u>	Translation Studies	153
<u>US</u>	Undergraduate Studies	153
<u>VTEC*</u>	Veterinary Technology	154
<u>VCD</u>	Visual Communication Design	155
<u>WMST</u>	Women's Studies	158

\*Courses offered only at Regional Campus

## Accounting (ACCT)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Accounting (ACCT)

### 23020 Introduction to Financial Accounting (3)

Introduction to principles of accounting as they relate to financial accounting and the preparation of financial statements. Prerequisite: none.

### 23021 Introduction to Managerial Accounting (3)

Introduction to principles of accounting as they relate to managerial accounting, including cost relationships. Prerequisite: ACCT 23020.

### 33000 Fundamental Tax Procedures (3)

Non-essential 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.

### 33001 Corporate Accounting I (3)

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 accounting (ACCT) major; and ACCT 23021 or ACTT 11001.

### 33004 Introduction to Accounting Systems (3)

Provides an overview of accounting information systems with emphasis on systems design and internal controls. Interpersonal skills and computer applications are emphasized. Prerequisites: cumulative 2.50 GPA; and accounting (ACCT) major; and ACCT 23021 or ACTT 11001.

### 33010 Cost Accounting (3)

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. Prerequisites: cumulative 2.50 GPA; and accounting (ACCT) major; and ACCT 33001 and 33004.

### 33012 Corporate Accounting II (3)

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. Prerequisites: cumulative 2.50 GPA; and accounting (ACCT) major; and ACCT 33001 and 33004.

### 33061 Financial Reporting Issues and Analysis (3)

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 toward accounting major. Prerequisite: cumulative 2.50 GPA; and ACCT 23032 or ACTT 11001; not open to accounting (ACCT) majors.

### 33063 Cost Control and Analysis for Management (3)

Cost accounting concepts and procedures; analysis of revenue, cost and income variances. Open only to non-contiguous majors; cannot count toward accounting major. Prerequisite: cumulative 2.50 GPA; and ACCT 23021 or ACTT 11001; not open to accounting (ACCT) majors.

### 43010 Principles of Auditing and Control (3)

Integration of concepts and practical aspects of auditing. The importance of strong controls is stressed. Ethical decision-making and written communication skills are emphasized. Prerequisites: cumulative 2.50 GPA; and senior standing; and accounting (ACCT) major; and ACCT 33010 and 33012. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### 43013 Advanced Management Accounting (3)

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 33012.

### 43014 Advanced Accounting Systems (3)

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 33004 and 33010 and 33012.

### 43020 Corporate Accounting III (3)

Business combinations, consolidated financial statements, specialized disclosures; foreign currency impacts; inter-corporate investments. Professional accounting research and interpersonal skills are emphasized. Prerequisites: cumulative 2.50 GPA; and senior standing; and accounting (ACCT) major; and ACCT 33001 and 33004 and 33010 and 33012 and 43031.

### 43031 Income Taxation (3)

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 33004 and 33010 and 33012.

### 43033 Income Tax II (3)

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 33001 and 33004 and 33010 and 33012 and 43031.

### 43034 Nonprofit Accounting and Auditing (3)

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 33004 and 33010 and 33012.

### 43092 Accounting Internship (3)

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. S/U grading. Prerequisites: junior standing and accounting (ACCT) major and special approval.

### 43093 Variable Title Workshop in Accounting (1-3)

(Course is repeatable) To be determined when a specific course is proposed for a particular term. S/U grading. Prerequisite: senior standing and accounting (ACCT) major and special approval.

### 43095 Special Topics: Accounting (1-3)

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

### 43096 Individual Investigation in Accounting (1-3)

Open only to senior majors in accounting with special approval of advisor. Prerequisites: senior standing and accounting (ACCT) major and special approval.

## Accounting Technology (ACTT)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Accounting Technology (ACTT)

### **Courses offered only at the Regional Campuses**

#### **11000 Accounting I—Financial (4)**

Introduction to financial accounting, including principles generally accepted in preparation of accounting statements for users outside of the business organization. Prerequisite: none.

#### **11001 Accounting II—Managerial (4)**

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.

#### **11003 Payroll Accounting (2)**

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.

#### **20012 Accounting Software Applications (3)**

A lecture/computer lab course using accounting, spreadsheet and word processing software. Prerequisites: ACTT 11001 and COMT 11000 or special approval of full-time ACTT faculty.

#### **21000 Accounting III—Financial (3)**

An intensive and practical study of financial accounting principles pertaining to balance sheet and income statement accounts, and statement analyses. Prerequisite: ACTT 11001.

#### **21001 Accounting IV—Financial (3)**

Continuation of ACTT 21000. Also considers income statement accounts and financial statement analyses. Both manual and computerized applications will be studied. Prerequisite: ACTT 21000.

#### **21003 Fundamentals of Tax Preparation (3)**

A nontechnical presentation of federal income tax laws and regulations as they relate to individuals. Prerequisite: ACTT 11000.

#### **21006 Introduction to Corporate Tax Preparation (3)**

An introduction to the preparation of corporation tax reports. Prerequisite: ACTT 21003.

#### **21063 Introduction to Cost Accounting (3)**

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.

#### **21092 Internship in Accounting Technology (2-3)\***

Students participate in a supervised field experience. Each credit hour requires a minimum of 7 hours of work per week for 15 weeks if the position is unpaid and 10 hours of work per week for 15 weeks if the position is paid. S/U grading. Prerequisites: ACTT 21000 and special approval.

#### **21095 Special Topics (1-3)\***

(Repeated registration permissible) Special topics in accounting. Prerequisite: special approval.

#### **21096 Individual Investigation—Accounting Technology (1-3)\***

(Repeated registration permissible) Independent in-depth research of an accounting topic supervised and coordinated by an accounting technology faculty member. Prerequisites: 12 credit hours of ACTT courses and special approval.

\*Course ineligible to be repeated for GPA recalculation.

## Adolescent/Adult Education (ADED)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Adolescent/Adult Education

#### **32142 Principles of Teaching Adolescents (3)**

Orientation to adolescence and the teaching-learning process. This course includes 30 field/clinical hours in an urban setting. IP grade permissible. 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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

#### **32268 The Secondary School Mathematics Curriculum (3)**

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. Prerequisites: ADED 32142 and MATH 22005.

#### **32275 Social Studies Education and the Social Sciences (3)**

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.

#### **32277 Teaching Science in Secondary Schools (3)**

Goals, methodology and resources for effective teaching of science to adolescents and young adults. Prerequisites: ADED 32142. Special fee: \$15 flat fee—subject to change.

#### **42196 Individual Project in Adolescent Education (2-4)**

S/U grading; IP grade permissible. Prerequisite: special approval.

#### **42268 Teaching of Mathematics in Secondary Schools (3)**

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. Prerequisites: ADED 32268.

#### **42275 Teaching Social Studies in Secondary Schools (3)**

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.

#### **42277 Topics in Secondary School Science Teaching (3)**

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.

#### **42278 Assessment in Language Arts (3)**

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.



**42292 Field Work Practicum (1-4)**

A minimum 96-hour field experience in middle or high school. observations, interviews, designs 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 one of the following courses: ADED 32268 or 32275 or 32277 or SEED 32147. Corequisite: ADED 42268 or 42275 or 42277 or 42278.

**42295 Special Topics in ADED (1-3)**

Prerequisite: special approval.

**42357 Secondary Student Teaching (9)**

Provides a 12-week student-teaching experience. See Student Teaching section of this Catalog. S/U grading; IP grade permissible. 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.

**42358 Secondary Student Teaching (4)**

Provides a 10-week student teaching experience. See Student Teaching section of this Catalog. S/U grading; IP grade permissible. 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 42292 and admission to advanced study.

**49525 Inquiry into Professional Practice (3)**

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

**Aviation Maintenance Technology (AMRT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Aviation Maintenance Technology (AMRT)

**Courses offered only at Regional Campuses****10010 FAA Regulations and Documentation (2)**

FAA history, inspections, documentation and aircraft drawings. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Corequisite: AMRT 10040.

**10020 Aircraft Tools and Techniques (2)**

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.

**10030 Airframe I (3)**

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

**10040 Aviation Power Plant I (4)**

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

**20010 Airframe II (3)**

Understanding aircraft structures. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Prerequisite: AMRT 10030.

**20020 Airframe III (2)**

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

**20030 Aviation Electronics (3)**

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

**20040 Principles of Flight (3)**

Nature of light, sound and aerodynamics. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Prerequisite: PHY 12202.

**20050 Practicum in Advanced Aviation (2)**

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

**20060 Aviation Power Plant II (2)**

Further studies into aircraft engines. Comprehensive course for the AMRT candidate to meet the requirements for FAA certification. Prerequisite: AMRT 10040.

**American Studies (AMST)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > American Studies (AMST)

**10001 Introduction to American Studies (3)**

Exposure to culture theory, analysis of major patterns and periodization in American culture. Required for American studies majors; also for elective credit. Prerequisite: none.

**40095 Special Topics (3)**

Selected subjects and/or themes in American culture. Prerequisites: junior standing and special approval.

**40096 Individual Investigation (1-3)**

(Repeated registration permissible) Individual research project. Prerequisites: senior standing and special approval.

**40197 Senior Colloquium (3)**

Intensive research into comparative culture pattern or theme, reading and discussion. Prerequisites: senior standing and special approval.

**Anthropology (ANTH)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Anthropology (ANTH)

**18210 Introduction to Cultural Anthropology (3)**

Exploration of human diversity through the analysis of world cultures. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**18420 Introduction to Archaeology (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**18630 Human Evolution (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**Students planning on majoring or minoring in anthropology in the College of Arts and Sciences must enroll in ANTH 38630. Students who are neither majoring nor minoring in anthropology should enroll in ANTH 18630.**

### **18631 Issues in Human Evolution (1)**

Laboratory study of primate and human anatomy; human paleontology; Mendelian, molecular and human genetics; and primate behavior, ecology and conservation. Pre/corequisite: ANTH 18630. Special fee: \$15 flat fee—subject to change. This course may be used to satisfy the Kent Core Requirements.

### **38050 Theory in Cultural Anthropology (3)**

Development of anthropological thought. Prerequisites: ANTH 18210.

### **38096 Individual Investigation in Anthropology (1-3)**

Readings and/or research supervised by a member of the anthropology staff. IP grade permissible. Prerequisite: special approval.

### **38240 Culture and Personality (3)**

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. This course may be used to satisfy the diversity requirement.

### **38250 Religion: A Search for Meaning (3)**

How human beings search for meanings in religious experience; the universality and cultural conditioning of this phenomenon. Prerequisite: ANTH 18210.

### **38292 Field Work in Cultural Anthropology (3)**

Practical experience carrying out field research in cultural anthropology under the supervision of members of the anthropology faculty. Prerequisite: ANTH 18210 or SOC 12050.

### **38420 Prehistory: Urbanism (3)**

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.

### **38430 Lithics (3)**

History of chipped-stone flint working and toolmaking 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.

### **38480 Archaeological Analysis (3)**

Methods necessary for the description and lab analysis of prehistoric remains. Course will include lab exercises as well as class lectures. Prerequisites: ANTH 18420. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### **38490 Quantitative Anthropology (3)**

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.

### **38492 Field Work in Archaeology (3)**

Field and lab techniques in archaeological research. Prerequisite: special approval.

### **38630 Principles of Biological Anthropology (3)**

Review of fundamental subfields of modern biological anthropology, including human population genetics, primate paleontology, human evolution and modern human taxonomy and variation. Prerequisite: none.

### **38680 Primate Societies (3)**

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.

### **48093 Variable Title Workshop in Anthropology (1-6)**

Classroom discussions and field study activity focused on professional and disciplinary concerns. Specific content varies with workshop group. S/U grading. Prerequisites: special approval.

### **48095 Special Topics in Anthropology (3)**

Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled. Prerequisites: ANTH 18210 or 18420.

### **48210 Culture and Communication (3)**

Relationship between language and culture. Covers basic principles of formal linguistics and their use in anthropology; case studies from ethnography of speech. Prerequisites: ANTH 18210 or SOC 12050.

### **48212 Kinship and Social Organization (3)**

This course employs cross-cultural approaches to the understanding of marriage, family organization, descent and kinship systems. Prerequisite: ANTH 18210. This course may be used to satisfy the diversity requirement.

### **48214 Politics of Culture (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### **48220 Cultural Ecology (3)**

Analysis of the relationship between socio-cultural systems and the physical-biological environment. Prerequisites: ANTH 18210.

### **48225 Archaeology of Death (3)**

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. Prerequisites: ANTH 18420.

### **48230 Socio-Cultural Change (3)**

Analysis of institutional change where peoples of different cultures are in sustained contact. Prerequisites: ANTH 18210.

### **48240 The Symbolic Imperative (3)**

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. Prerequisites: ANTH 18210 or SOC 12050.

### **48250 Culture and Curing (3)**

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. This course may be used to satisfy the diversity requirement.

### **48260 Culture Conflict (3)**

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. This course may be used to satisfy the diversity requirement.

### **48270 Native Peoples of North America (3)**

Comparative analysis of North American Indian peoples and cultures with special reference to linguistic groupings, cultural areas and contemporary issues. Prerequisites: ANTH 18210.

### **48291 Seminar in Revolution and Culture Change (3)**

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.



**48391 Seminar in History of Anthropology (3)**

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.

**48410 Stone Age Archaeology (3)**

Survey of Old World cultural history, using archaeological data. Stresses the period of three million years ago to 10,000 years ago. Prerequisites: ANTH 18420 and junior standing.

**48420 Archaeology of North America (3)**

Survey of major North American and Mexican archaeological sequences with emphasis on interareal relationships. Prerequisites: ANTH 18420 and junior standing.

**48425 Ancient Mesoamerica (3)**

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. Prerequisites: ANTH 18420.

**48440 Archaeology of Ancient Ohio (3)**

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. Prerequisites: ANTH 18420.

**48450 States and Empires (3)**

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.

**48630 Pacific Island Cultures (3)**

Peoples and characteristics of culture areas of Pacific Islands, including Polynesia, Melanesia and Micronesia, with analysis of several representative cultures from these areas. Prerequisites: ANTH 18210. This course may be used to satisfy the diversity requirement.

**48692 Field Work in Biological Anthropology (3)**

Can be applied to any bioanthropology field of study and off-campus activity, ranging from museum work to U.S. and international research projects. Prerequisite: special approval.

**48810 Human Paleontology (3)**

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

**48820 Human Musculo-skeletal System (3)**

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.

**48830 Human Behavioral Ecology and Evolution (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department. This course may be used to satisfy the diversity requirement.

**48835 Primate Ecology and Conservation (3)**

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

**48840 Natural Selection in Perspective (3)**

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.

**Architecture (ARCH)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Architecture (ARCH)

**10001 Understanding Architecture (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**10011 Survey of Architectural History I (3)**

History of architecture from Neolithic times through the 14th century. Prerequisite: not open to architecture majors. This course may be used to satisfy the Kent Core Requirements.

**10012 Survey of Architectural History II (3)**

History of Western architecture from the Renaissance to the early 20th century. Prerequisite: ARCH 10011; not open to architecture majors. This course may be used to satisfy the Kent Core Requirements.

**10093 Workshop: Variable Title (1-3)\***

(Repeated registration permissible) Variable topics. S/U grading. Prerequisite: special approval.

**10101 First Year Design Studio I (3)**

Introduction to the fundamental principles of visual organization, structural organization, graphic communications, historical precedence and current directions in architecture. Graphic techniques include freehand drawing and technical orthographics, axonometrics and perspectives. Prerequisite: architecture (ARCH) or interior design (ID) major. Special fee: \$20 flat fee—subject to change.

**10102 First Year Design Studio II (3)**

Investigations into strategies of form making through the introduction of client, type, context, site and form/space theories, 2-D and 3-D representation techniques and analysis of related reference architects. Prerequisite: ARCH 10101. Special fee: \$20 flat fee—subject to change.

**10111 History of Architecture I (3)**

History of architecture from pre-history through the Gothic period. Prerequisite: none.

**10121 Representation of Design I (3)**

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: admission to the College of Architecture and Environmental Design.

**10122 Representation of Design II (3)**

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 10101 or 10121.

**20101 Second Year Design Studio I (3)**

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. Special fee: \$20 flat fee—subject to change.

**20102 Second Year Design Studio II (3)**

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 configural shapes are again incorporated to develop building form solutions. Prerequisite: ARCH 20101. Special fee: \$20 flat fee—subject to change.

**20112 History of Architecture II (3)**

History of architecture from the Medieval era through the 19th century. Prerequisites: architecture (ARCH) or architectural studies (ARCS) major.

**20113 History of Architecture III (3)**

A history of 20th-century architecture. Prerequisite: ARCH 20112 and architecture (ARCH) or architectural studies (ARCS) major.

**20121 Studio for Architectural Studies I (4)**

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.

**20122 Studio for Architectural Studies II (4)**

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.

**20201 Beyond Western Architecture (3)**

Course introduces students to the broad realm of contributions to world architecture made by cultures and civilizations which were not in the traditional sphere of Western/European influence. Prerequisite: ARCH 10111 and 20112.

**20301 Introduction to Building Structures (3)**

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. Prerequisites: open to junior and senior architecture (ARCH) or architectural studies (ARCS) or fine arts (ARTS) or interior design (ID) majors.

**20601 Computer Applications in Architecture I (1-3)**

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.

**20602 Computer Applications in Architecture II (1-3)**

Principles and practices of 3D digital modeling and rendering, including: production of geometric surfaces and forms using polygon construction, texturing, lighting and rendering. Prerequisites: ARCH 20601 and architecture (ARCH) or architectural studies (ARCS) or interior design (ID) major.

**20693 Workshop: Computer Applications (3)\***

(Repeated registration permissible) 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. S/U grading. Prerequisite: architecture (ARCH) and interior design (ID) majors only.

**30001 Site Design (1)**

Research component addressing technical, cultural and contextual concerns, influences and directions in site design. Prerequisite: ARCH 30101 and architecture (ARCH) major with approved admission to advanced study (third year). This course may be used to satisfy the writing-intensive requirement with approval of major department.

**30002 Urban Design (1)**

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

**30012 Urban Design, Florence, Italy (1)**

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

**30022 Urban Design Discourse (3)**

Starting in the 1960s, a series of theorists attempted to understand the city as a form of writing, producing some of the most influential design books of the last generation. This 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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**30101 Third Year Design Studio I (5)**

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. Prerequisites: ARCH 30001 and architecture (ARCH) major with approved admission to advanced study (third year). Special fee: \$20 flat fee—subject to change.

**30102 Third Year Design Studio II (5)**

Studio investigation with specific emphasis on the understanding of the goals, objectives, intentions and parameters of urban design. Corequisite: ARCH 30002. Prerequisite: ARCH 30101. Special fee: \$20 flat fee—subject to change.

**30112 Third Year Design Studio II—Florence, Italy (5)**

Studio investigation with specific emphasis on understanding of the goals, objectives, intentions and parameters of urban design. Corequisite: ARCH 30012. Prerequisite: special approval. Special fee: \$20 flat fee—subject to change.

**30301 Structural Systems I (3)**

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. Prerequisites: ARCH 20301 and architecture (ARCH) major with approved admission to advanced study (third year).

**30321 Structural Typology (3)**

Course provides a noncomputational 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 20102 or 20122.

**30401 Methods and Materials I (3)**

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. Prerequisites: architecture (ARCH) major with approved admission to advanced study (third year).

**30421 The Environmental Imperative (3)**

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 20102 or 20122.

**30501 Environmental Technology I (3)**

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 admitted to advanced study.

**40001 Sustainable Design (1)**

Research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design. Corequisite: ARCH 40101. Prerequisites: ARCH 30102 and 30112. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**40002 Systems Design (1)**

Lecture and research component addressing comprehensive integration of mechanical, electrical, communications, structural, life safety systems and sustainable design concerns. Corequisite: ARCH 40102. Prerequisite: ARCH 40101.

**40101 Fourth Year Design Studio I (5)**

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. Corequisite: ARCH 40001. Prerequisite: ARCH 30102 or 30112. Special fee: \$20 flat fee—subject to change.

**40102 Fourth Year Design Studio II (5)**

Studio investigation of the comprehensive concerns and understanding of building systems integration. CAD is required. Corequisite: ARCH 40002. Prerequisite: ARCH 40101. Special fee: \$20 flat fee—subject to change.

**40302 Structural Systems II (3)**

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.

**40402 Methods and Materials II (3)**

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.

**40502 Environmental Technology II (3)**

Ecological design of large buildings. The investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings. Prerequisite: ARCH 30501.

**44611 Portfolio (1)**

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.

**45001 Professional Practice: Real Estate and Development (3)**

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.

**45002 Professional Practice: Contract and Planning Law (3)**

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.

**45003 Professional Practice: Leadership and Ethics (3)**

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.

**45004 Professional Practice: Office and Financial Management (3)**

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.

**45093 Workshop: Professional Practice (1-3)**

(Repeatable for a total of 3 credit hours) Variable topic workshop related to architectural professional practice. S/U grading. Prerequisite: admission to Bachelor of Architecture professional program.

**45101 Fifth Year Design Studio I (6)**

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. Special fee: \$15 flat fee—subject to change.

**45102 Fifth Year Design Studio II (3-6)**

(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 special approval required. Special fee: \$2.50/credit hour—subject to change.

**45204 Beyond Western Traditions (3)**

An introduction to the architectural traditions of Asia, Africa, pre-colonial America and Islam. Prerequisite: ARCH 20113.

**45210 Renaissance Architecture (3)**

History and theory of Renaissance architecture from 1400 until 1600. Prerequisites: ARCH 10011 and 10012; or ARCH 10111 and 20112; or ARTH 22006 and 22007.

**45211 Baroque Architecture (3)**

History and theory of architecture in Europe from 1600 through 1750. Prerequisites: ARCH 10011 and 10012; or ARCH 10111 and 20112; or ARTH 22006 and 22007.

**45220 American Architecture: Colonial to 1900 (3)**

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.

**45230 Frank Lloyd Wright (3)**

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.

**45291 Seminar: Variable Topics in Architectural History (1-3)**

(Repeatable for a total of 3 credit hours) Content varies. Prerequisite: special approval.

**45391 Seminar: Structures III (1-3)**

(Repeatable for a total of 3 credit hours) 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.

**45491 Seminar: Methods and Materials III (1-3)**

(Repeatable for a total of 3 credit hours) Advanced topics in methods and complex materials systems. Computer modeling and field experiences are required. Prerequisite: ARCH 40402.

**45591 Seminar: Environmental Technology III (1-3)**

(Repeatable for a total of 3 credit hours) Variable topics in environmental technology—environmental design and energy conservation, advanced lighting techniques, etc. Prerequisite: ARCH 40502.

**45601 Advanced Computer Applications (1-3)**

(Repeatable for a total of 3 credit hours) This course discusses advanced visualization techniques such as raytracing, radiosity and animation, and presents a variety of presentation issues and options. Prerequisite: special approval; admission to third year.

**45610 (Re)constructing Architecture (3)**

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. This course may be used to satisfy the diversity requirement.

**45611 Design Theory and Criticism: Twentieth Century (1-3)**

(Repeatable for a total of 3 credit hours) Design theory and criticism of architecture in the 20th century. Prerequisite: none.

**45620 Introduction to Preservation (1-3)**

(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: special approval.

**45621 Current Issues in Historic Preservation (1-3)**

(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: special approval.

**45630 Introduction to Landscape Architecture (1-3)**

(Repeatable for a total of 3 credit hours) Introduction to landscape design with emphasis upon the relationship between landscape and buildings. Prerequisite: none.

**45631 Site Analysis and Design (1-3)**

(Repeatable for a total of 3 credit hours) Analysis of environmental factors as a basis for site selection and site planning. Prerequisite: none.

**45632 Urban Ecology (1-3)**

(Repeatable for a total of 3 credit hours) Understanding the built environment as an integral component of an overall ecological system. Emphasis is on the need for a collaborative multidisciplinary and community-based ecological design process, sustainable ethic and cultivating an awareness of nature in the city. Prerequisite: none.

**45640 Developing Environments for Older Adults (1-3)**

(Repeatable for a total of 3 credit hours) Research of existing built environments and an investigation of the planning design process for the elderly. Prerequisite: none.

**45701 Urban Design Studio I (3-6)**

(Repeatable for a total of 6 credit hours) 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.

**45702 Urban Design Studio II (3-6)**

(Repeatable for a total of 6 credit hours) 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.

**45703 Theories and Principles of Urban Design I (1-3)**

(Repeatable for a total of 3 credit hours) 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. Prerequisite: none.

**45704 Theories and Principles of Urban Design II (1-3)**

(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.

**45706 Socio-Political Representation in Urban Design (1-3)**

(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.

**45707 Representation in Design (1-3)**

(Repeatable for a total of 3 credit hours) 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. Prerequisite: none.

**45793 Workshop: Urban Design and Planning (1-3)**

(Repeatable for a total of 3 credit hours) 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. S/U grading. Prerequisite: none.

**46263 Modern Architecture (3)**

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

**46613 Urban Design Theory (3)**

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

**46991 Seminar: Variable Topics (1-3)**

(Repeatable for a total of 3 credit hours) Variable topic seminar. Prerequisite: special approval; approved admission to third year.

**46992 Field Study (1-3)**

(Repeatable for a total of 3 credit hours) Variable topic field experience. Prerequisite: special approval; approved admission to third year.

**46993 Workshop: Variable Topic (1-3)**

(Repeated registration permissible) Variable topic workshop. S/U grading. Prerequisite: special approval; approved admission to third year.

**46995 Special Topics (1-3)**

(Repeated registration permissible) Special topics in architecture. Prerequisite: special approval; approved admission to third year. Special fee: \$30 flat fee—subject to change.

**46996 Individual Investigation (1-3)**

(Repeatable for a total of 3 credit hours) Individual investigation. Prerequisite: special approval; prior written agreement with faculty is required.

*\* Course ineligible to be repeated for GPA recalculation.*

**Arabic (ARAB)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Arabic (ARAB)

**11101 Elementary Arabic I (5)**

Introduction to Modern Standard Arabic and colloquial Arabic in the context of the cultures of Arabic speakers. Prerequisite: none.

**11102 Elementary Arabic II (5)**

Continuation of the introduction to Modern Standard Arabic and colloquial Arabic in the context of the cultures of Arabic speakers. Prerequisite: ARAB 11101.

**21201 Intermediate Arabic I (5)**

Continued development of speaking, listening, reading and writing skills in Arabic, using a variety of cultural materials. Prerequisite: ARAB 11102.

**21202 Intermediate Arabic II (5)**

Continuation of ARAB 21201. Prerequisite: ARAB 21201.

**30095 Special Topics in Arabic Language and Culture (3)**

(Repeatable for a total of 9 hours) Special topics in Arabic civilization, culture or language. Prerequisite: none.

**31301 Advanced Intermediate Arabic I (4)**

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.

**31302 Advanced Intermediate Arabic II (4)**

Continuation of ARAB 31301. Prerequisite: ARAB 31301.

**41201 Advanced Arabic I (4)**

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. Prerequisites: ARAB 31302 and special approval.

**41202 Advanced Arabic II (4)**

Continuation of ARAB 41201. Prerequisites: ARAB 41201 and special approval.

**41301 Arabic Culture (3)**

Survey of the Arab world covering its geographical, ethnic, religious and linguistic diversity and the roots of its current socio-cultural context. Prerequisite: ARAB 31302.

**41302 Business Arabic (3)**

Study of the business protocol, language functions, texts and vocabulary associated with travel and business in the Arabic-speaking world. Prerequisite: ARAB 31302.

**ART (Art)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > ART (Art)

**30692 Field Experience: Experiential Learning in the Visual Arts (1-3)**

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.

**40008 Professional Practices in the Visual Arts (3)**

Introduction to the concerns and practices of the professional artist/craftsperson. Prerequisite: crafts (ARTC) or fine arts (ARTS) major and senior standing. Special fees: \$90 flat fee—subject to change. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41093 Variable Title Workshop in Art (1-6)**

(Repeatable for a total of 18 hours) S/U grading. Prerequisite: special approval.

**Art Crafts (ARTC)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Art Crafts (ARTC)

**25300 Textile Arts: Pattern (3)**

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 all craft majors. Prerequisites: ARTF 14000 and 14022. Special fee: \$45 flat fee—subject to change.

**25400 Ceramics I (3)**

This course is an introduction to ceramics as an artistic medium with focus on the handbuilding of clay objects using the pinch, coil and slab methods of construction. Prerequisites: ARTF 14000 and 14022. Special fee: \$150 flat fee—subject to change.

**25500 Enameling I (3)**

Testing and exploration of vitreous enamel as creative medium. Prerequisites: ARTF 14000 and 14022. Special fee: \$150 flat fee—subject to change.

**25600 Introduction to Glass Working (3)**

Introduction to studio glass through technique and brief history. Both basic glass blowing and glass casting techniques and problems will be covered. Prerequisites: ARTF 14000 and 14022. Special fee: \$189 flat fee—subject to change.

**25700 Introduction to Jewelry/Metals (3)**

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. Special fee: \$150 flat fee—subject to change.

**25701 Introduction to Jewelry/Metals for Non-majors (3)**

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. No credit for both ARTC 25700 and 25701. Prerequisite: none.

**35095 Crafts: Selected Topics (3)**

Specialized courses in crafts that focus on specific techniques and media. Prerequisite: ARTC 25300 or 25400 or 25500 or 25600 or 25700. Special fee: \$135 flat fee—subject to change.

**35300 Textile Arts: Dimensional (3)**

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. Special fee: \$60 flat fee—subject to change.

**35301 Fiber Arts: Screen and Block Printing (3)**

Exploration and development of fabric printing and dyeing including monoprining and screen printing with emphasis on design and developing studio competency in medium as art form. Prerequisites: ARTF 14060 and 24040. Special fee: \$75 flat fee—subject to change.

**35302 Textile Arts: Feltmaking (3)**

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. Prerequisites: ARTF 14022 and 14060. Special fee: \$75 flat fee—subject to change.

**35303 Textile Arts: Tapestry (3)**

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. Prerequisites: ARTF 14022 and 14060. Special fee: \$60 flat fee—subject to change.



**35304 Textile Arts: Pictorial Weaving (3)**

An introduction to floor loom weaving processes that facilitate the development of nonrepetitive patterns and images. Techniques such as warp painting, supplementary weft and pick-up doubleweave 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. Prerequisites: ARTF 14022 and 14060. Special fee: \$60 flat fee—subject to change.

**35350 Textile Arts: Design and Production (3)**

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.) Prerequisites: ARTF 14022 and 14060. Special fee: \$75 flat fee—subject to change.

**35400 Ceramics II (3)**

Continuation of ARTC 25400 emphasizing design, use of potter's wheel and chemistry of glazes. Prerequisite: ARTC 25400. Special fee: \$150 flat fee—subject to change.

**35600 Glass Blowing (3)**

Further exploration of glass blowing techniques. Design, form, color and execution will be emphasized. Prerequisite: ARTC 25600. Special fee: \$210 flat fee—subject to change.

**35601 Sculptural and Kiln-Formed Glass (3)**

An overview and exploration of sculptural and kiln-formed glass techniques. Casting, jusing, slumping and cold construction is covered. Design, form, content and technical execution and understanding operations of equipment is emphasized. Prerequisites: ARTC 25600 and ARTF 14055. Special fee: \$240 flat fee—subject to change.

**35700 Jewelry Concepts and Techniques (3)**

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. Special fee: \$150 flat fee—subject to change.

**35701 Metalsmithing Concepts and Techniques (3)**

Course offers an in-depth exploration of hammerworking 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. Special fee: \$150 flat fee—subject to change.

**35702 Enameling Concepts and Techniques (3)**

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. Special fee: \$150 flat fee—subject to change.

**35703 Textile Techniques in Metal (3)**

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. Special fee: \$150 flat fee—subject to change.

**45092 Field Experience Travel Study Crafts (1-3)**

Travel-based study/field experience in crafts disciplines to and at a site or sites away from Kent State University. S/U grading. Prerequisite: major in crafts (ARTC).

**45095 Crafts: Selected Topics (1-6)**

Specialized courses in crafts that focus on specific techniques and media. Prerequisite: junior standing. Special fee: \$45/credit hour—subject to change.

**45096 Individual Study: Crafts (1-6)**

(Repeatable for a total of 12 credit hours) Additional study and/or special topics in ceramics, enameling, glass, jewelry/metals or fiber arts. IP grade permissible. Prerequisite: special approval. Special fee: \$50/credit hour—subject to change.

**45099 Senior Project: Crafts (4)**

Independently conceived project in crafts submajor. Includes completion of undergraduate thesis, review presentation documentation (slide form), exhibition and faculty review. Letter grades and IP grade permissible. Prerequisite: senior standing and crafts (ARTC) major. Special fee: \$200 flat fee—subject to change.

**45301 Textile Arts: Advanced Studio (3)**

(Repeatable for a total of 6 credit hours) Structured time for individual investigations in textiles. Emphasis on self-designed study. Biweekly presentations of contemporary work in textiles and weekly discussions or critiques with open studio. IP grade permissible. Prerequisite: senior standing and crafts (ARTC) major. Special fee: \$75 flat fee—subject to change.

**45400 Advanced Ceramics (2-6)**

(Repeatable for a total of 40 credit hours) Individual problems in ceramics. Prerequisite: ARTC 35400. Special fee: \$50/credit hour—subject to change.

**45500 Advanced Enameling (2-6)**

(Repeatable for a total of 30 credit hours) Advanced study in enameling allows students to work in-depth with media. Prerequisite: special approval. Special fee: \$50/credit hour—subject to change.

**45600 Advanced Glass Working (2-6)**

(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. Prerequisites: ARTC 35600 and 35601. Special fee: \$75/credit hour—subject to change.

**45700 Design and Production (3)**

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. Prerequisites: ARTC 35700 and 35701. Special fee: \$120 flat fee—subject to change.

**45701 Tableware (3)**

Course explores forms made for the table such as flatware, serving sets and containers. Traditional and experimental approaches will be examined. Prerequisites: ARTC 35700 and 35701. Special fee: \$120 flat fee—subject to change.

**45702 Advanced Enameling (3)**

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. Special fee: \$120 flat fee—subject to change.



**45703 Large Scale Enameling (3)**

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. Special fee: \$120 flat fee—subject to change.

**45704 Advanced Studio:****Jewelry/Metals/Enameling (3)**

(Repeatable for a maximum of 9 credit hours) 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. Prerequisites: ARTC 35700 and 35701 and senior standing. Special fee: \$120 flat fee—subject to change.

**Art Education (ARTE)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Art Education (ARTE)

**31001 Art Education: Foundations and Concepts (3)**

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 (ARTE). Special fee: \$15 flat fee—subject to change.

**31004 Art Education: Teaching Practicum (3)**

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. Prerequisites: 2.75 GPA and ARTE 31001.

**31005 Art Education Special Topics (2-4)**

Special topics (experimental course). IP grade permissible. Prerequisite: special approval of instructor.

**31096 Individual Study—Art Education (2-10)**

Additional study in areas of a student's choice in consultation with advisor. IP grade permissible. Prerequisite: special approval.

**41002 Art Education: Methods and Materials (3)**

An examination of relationships between content, materials and strategies for teaching art. Seven field and/or clinical hours are associated with this course. Prerequisites: 2.75 GPA and ARTE 31004. Special fee: \$5 flat fee—subject to change.

**41003 Art Education: Field Experiences (3)**

(Repeatable for a total of 8 hours) 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. Prerequisites: 2.75 GPA and ARTE 31004. This course may be used to satisfy the writing-intensive requirement with approval of major department. Special fee: \$30 flat fee—subject to change.

**41009 Art Education Major Review (1)**

Examination of student's knowledge, proficiency and ability to apply concepts in art and art education. S/U grading; IP grade permissible. Prerequisite: 2.75 GPA and pre/corequisites: ARTE 41002 and 41003.

**41092 Field Experience Travel Study in Art Education (1-3)**

Travel-based study/field experience in art education to and at a site or sites away from Kent State University. S/U graded. Prerequisite: major in art education (ARTE).

**41096 Individual Study—Art Education (1-6)**

Additional study in areas of students' choice in consultation with advisor. IP grade permissible. Prerequisite: special approval.

**41525 Art Education: Inquiry into Professional Practice (3)**

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. Prerequisites: 2.75 GPA and ARTE 41009 and special approval. Corequisite: ARTE 41557.

**41557 Art Education: Student Teaching and Seminar (9)**

Provides a 10-week student teaching experience and associated seminar. S/U grading; IP grade permissible. See Student Teaching section in Catalog. Prerequisites: 2.75 GPA and ARTE 41009 and special approval. Corequisite: ARTE 41525.

**Art Fine Arts (ARTF)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Art Fine Arts (ARTF)

**14000 Drawing I (3)**

Fundamental drawing and studio experiences; exploration of basic drawing ideas and media. Work produced in this course must be retained for later portfolio presentation in ARTF 24005. Prerequisite: none. Special fee: \$22 flat fee—subject to change.

**14001 Drawing II (3)**

Continued practice in drawing with particular emphasis upon dimensional representation and pictorial structure. Work produced in this course must be retained for later portfolio presentation in ARTF 24005. Prerequisite: ARTF 14000. Special fee: \$22 flat fee—subject to change.

**14022 2D Composition (3)**

Basic introduction in flat pictorial composition for the studio or craft artist. Work produced in this course must be retained for later portfolio presentation in ARTF 24005. Prerequisite: none. Special fee: \$36 flat fee—subject to change.

**14055 Sculpture I (3)**

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. Special fee: \$66 flat fee—subject to change.

**14060 Painting I (3)**

Opaque, water-based media used to introduce fundamental form language and vocabulary of painting. Emphasis on structured study and effective use of colors. Work produced in this course must be retained for later portfolio presentation in ARTF 24005. Prerequisites: ARTF 14000. Special fee: \$25 flat fee—subject to change.

**24001 Drawing III (3)**

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. Special fee: \$24 flat fee—subject to change.

**24005 Sophomore Review: Fine Arts (1)**

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 C average) 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. S/U grading; IP grade permissible. Prerequisites: ARTF 14000 and 14001 and 14022 and 14055 and 14060 and 24010 and 24040; and ARTH 22006 and 22007; and fine arts (ARTF) major.

**24010 Introduction to Fine Art Photography (3)**

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 course must be retained for later portfolio presentation in ARTF 24005. Prerequisites: ARTF 14000 and 14022. Special fee: \$60 flat fee—subject to change.

**24020 Digital Media (3)**

Introduces concepts, tools, software and guided experiences necessary for creative integration of digital skills and concepts into art practices and art research. Prerequisites: art education (ARTE) or art history (ARTH) or fine arts (ARTS) or crafts (CRFT) or crafts/fine arts (CFA) major and freshman or sophomore standing. Special fee: \$45 flat fee—subject to change.

**24040 Printmaking I (3)**

Basic traditional and contemporary techniques of relief (woodcut, lino-cut, etc.) and intaglio printing (etching, colography, etc.). Work produced in this course must be retained for later portfolio presentation in ARTF 24005. Prerequisite: ARTF 14000. Special fee: \$45 flat fee—subject to change.

**24055 Sculpture II (3)**

Continuation of ARTF 14055 with greater emphasis on materials and processes. Prerequisite: ARTF 14055. Special fee: \$66 flat fee—subject to change.

**24060 Painting II (3)**

Continuation of work begun in ARTF 14060. Introduction to oil painting with emphasis upon direct painting from observed sources and study of expressive capabilities of painting. Prerequisite: ARTF 14060. Special fee: \$39 flat fee—subject to change.

**34001 Drawing IV (3)**

(Repeatable for a total of 9 credit hours) Further study and understanding of concepts and ideas which enable students to understand and professionally realize their drawings. Prerequisite: ARTF 24001 and a grade of S in ARTF 24005. Special fee: \$28 flat fee—subject to change.

**34002 Introduction to Figure Drawing (3)**

(Repeatable for a total of 9 credit hours) 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. Prerequisites: ARTF 14000 and 14001 and 24001 and a grade of S in ARTF 24005. Special fee: \$66 flat fee—subject to change.

**34040 Printmaking: Intermediate Intaglio (3)**

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. Special fee: \$54 flat fee—subject to change.

**34041 Serigraphy I (3)**

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. Prerequisites: ARTF 24040 and a grade of S in ARTF 24005. Special fee: \$66 flat fee—subject to change.

**34042 Lithography I (3)**

Introduction to stone lithography. Techniques of drawing and printing crayon, tusche, transfer and color images and their relation to problems of drawing and composition. Prerequisites: ARTF 24040 and a grade of S in ARTF 24005. Special fee: \$45 flat fee—subject to change.

**34050 Sculpture: Life Modeling (3)**

(Repeatable for a total of 6 credit hours) Continuation of the study of the human figure in sculpture. Prerequisites: ARTF 24055 and a grade of S in ARTF 24005. Special fee: \$66 flat fee—subject to change.

**34055 Sculpture III (3)**

A sculpture course with an emphasis on other conceptual approaches beyond the more formal and aesthetic considerations explored in Sculpture II. Prerequisites: ARTF 24055 and ARTF 24005 with a grade of S. Special fee: \$66 flat fee—subject to change.

**34060 Painting III (3)**

Continuation of the painting experience in various media, using formal means of painting expressively. Prerequisites: ARTF 24060 and a grade of S in ARTF 24005. Special fee: \$30 flat fee—subject to change.

**44003 Drawing V (3)**

(Repeatable for a total of 9 credit hours) Continuation of ARTF 34001. Prerequisite: ARTF 34001 and a grade of S in ARTF 24005. Special fee: \$28 flat fee—subject to change.

**44010 Advanced Fine Art Photography (3)**

Combined studio/lecture course offering more advanced, conceptual approach 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. Prerequisites: ARTF 24010 and ARTF 24005 with a grade of S. Special fee: \$60 flat fee—subject to change.

**44040 Printmaking: Advanced Intaglio (3)**

(Repeatable for a total of 9 credit hours.) Continuation of ARTF 34040 with special emphasis on color and photographic techniques intaglio. Prerequisite: ARTF 34040 and a grade of S in ARTF 24005. Special fee: \$45 flat fee—subject to change.

**44041 Serigraphy II (3)**

(Repeatable for a total of 9 credit hours) Continuation of ARTF 34041 emphasizing individually assigned projects. Prerequisite: ARTF 34041 and a grade of S in ARTF 24005. Special fee: \$66 flat fee—subject to change.

**44042 Lithography II (3)**

(Repeatable for a total of 9 credit hours) 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. Special fee: \$30 flat fee—subject to change.

**44043 Advanced Printmaking (3)**

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. Prerequisite: Two from ARTF 34040 and/or 34041 and/or 34042 and/or 44040 and/or 44041 and/or 44042.

**44055 Sculpture IV (3)**

(Repeatable for a total of 9 credit hours) 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. Special fee: \$66 flat fee—subject to change.

**44060 Painting IV (3)**

(Repeatable for a total of 9 credit hours) 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. Special fee: \$30 flat fee—subject to change.

**44092 Field Experience Travel Study Fine Art (1-3)**

Travel-based study/field experience in fine arts disciplines to and at a site or sites away from Kent State University. S/U graded. Prerequisite: major in fine art (ARTS).

**44095 Selected Topics: Fine Arts (1-6)**

Special problems in studio art. Discussion, lecture and studio research in various selected media and concepts. Content varies each semester offered. Prerequisite: Grade of S in ARTF 24005. Special fee: \$22/credit hour—subject to change.

**44096 Individual Study Fine Art (1)**

Additional study in area of student's choice in consultation with advisor. Prerequisite: major in fine art (ARTS) and special approval.

**44099 Senior Project: Fine Arts (3)**

Independently conceived project by senior fine art major, including written proposal and undergraduate thesis, culminating in an exhibition and review. IP grade permissible. Prerequisites: senior standing and a grade of S in ARTF 24005 and special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department. Special fee: \$22/credit hour—subject to change.

**Art History (ARTH)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Art History (ARTH)

**12001 Art Survey (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**22006 Art History I: Ancient and Medieval Art (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**22007 Art History II: Renaissance to Modern Art (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**22020 Art of Africa, Oceania, and the Americas (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**32066 Late Modern Art (3)**

Painting, sculpture and allied arts in the United States and Europe from 1940 to the present. Prerequisite: ARTH 22007. Special fee: \$45 flat fee—subject to change.

**42000 Research and Writing in Art History (3)**

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. Corequisite: upper-division art history (ARTH) course. Prerequisite: junior standing or above. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**42021 Arts of India and Southeast Asia (3)**

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

**42022 The Arts of China (3)**

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

**42023 The Arts of Japan (3)**

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

**42025 Art of West Africa (3)**

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. This course may be used to satisfy the diversity requirement. Special fee: \$45 flat fee—subject to change.

**42026 Art of Nigeria (3)**

Study of the arts, crafts and architecture of Nigeria from prehistoric times to the present. Prerequisite: junior or senior standing. This course may be used to satisfy the diversity requirement. Special fee: \$45 flat fee—subject to change.

**42027 Art of Central Africa (3)**

Comparative study of the arts, crafts and architecture of Central Africa from prehistoric times to the present. Prerequisite: junior or senior standing. This course may be used to satisfy the diversity requirement. Special fee: \$45 flat fee—subject to change.

**42031 Greek Art and Archaeology (3)**

(Cross-listed with CLAS 41401) Greek art and architecture from earliest times through Hellenistic period with special attention given to recent archaeological discoveries. Prerequisite: junior or senior standing.

**42032 Roman Art and Archaeology (3)**

(Cross-listed with CLAS 41402) 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.

**42036 Medieval Art (3)**

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

**42039 Gothic Art, 12th to 15th Centuries (3)**

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. Prerequisites: ARTH 22006 and 22007.

**42041 Italian Renaissance Art (3)**

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. Special fee: \$45 flat fee—subject to change.

**42042 Northern Renaissance Art (3)**

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.

**42043 The High Renaissance and Mannerism in Italy (3)**

Covers late 15th- 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.

**42044 Venetian Renaissance Art (3)**

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

**42046 Baroque Art of the 17th Century (3)**

Study of the origins of Baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain. Prerequisite: junior or senior standing. Special fee: \$45 flat fee—subject to change.

**42047 Rococo Art in the 18th Century (3)**

Study of 18th-century art in France and subsequent spread and development throughout continental Europe. Prerequisite: junior or senior standing.

**42051 European Art and Ideas: 1750-1900 (3)**

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. Special fee: \$45 flat fee—subject to change.

**42056 American Art: 1607-1860 (3)**

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.

**42057 American Art and Architecture: 1860-1940 (3)**

In-depth study of American painting, sculpture, graphic art, architecture and allied arts from the Civil War to 1940. Prerequisite: junior or senior standing.

**42058 History of Photography (3)**

Investigation of photography from the 19th century to present day. Prerequisite: none.

**42061 Early 20th-Century Art (3)**

Study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940. Prerequisite: ARTH 22007. Special fee: \$45 flat fee—subject to change.

**42062 Picasso (3)**

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: junior or senior standing.

**42063 American Art: European Roots (3)**

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.

**42067 Art of the 1960s (3)**

A survey of major movements of the sixties decade, with primary emphasis on the United States. Prerequisite: junior or senior standing.

**42068 Gender and Sexuality in the Arts (3)**

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. Prerequisites: junior or senior standing.

**42070 History of Graphic Design (3)**

Traces the arts of visual communication from their origins to current trends and practices with an emphasis on theory and aesthetics. Prerequisite: junior standing.

**42071 History of Prints (3)**

Chronological survey of printmaking (engraving, etching, lithography, etc.) from 1400 to the present, emphasizing its technical and stylistic evolution. Prerequisite: junior or senior standing.

**42072 Introduction to Museology (3)**

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. Prerequisites: ARTH 12001 for nonart majors; ARTH 22006 and 22007 art majors.

**42075 Film and Photography in Western Art and Ideas (3)**

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.

**42078 History of the Decorative and Applied Arts (3)**

Historical and critical examination of decorative and applied arts and their relationship to the Western societies which produced them. Prerequisites: ARTH 22006 and 22007.

**42091 Art History Seminar (3)**

Open format course with topics announced in advance. Designed to allow detailed examination of selected topics. Prerequisites: junior standing and special approval of instructor.

**42092 Art Museum Internship (3)**

A supervised internship in a regional art museum emphasizing the practical application of museological principles and practices. Prerequisites: junior or senior standing and ARTH 42072.

**42095 Special Topics: Art History (1-3)**

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.

**42096 Individual Investigation: Art History (3)**

Directed independent study with art history faculty. IP grade permissible. Prerequisite: junior or senior standing.

**42192 Field Experience Travel Study Art History (1-3)**

(Repeatable for a total of 8 credit hours) 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. S/U graded. Prerequisite: major in art history (ARTH) or special approval of instructor. Special fee: actual cost basis.

**Arts and Sciences (AS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Arts and Sciences (AS)

*The following courses are offered in support of nondepartmental Interdisciplinary programs sponsored by the College of Arts and Sciences and constitute a portion of the curricular requirements of those programs.*

**11001 Foundations of Modern Thought I (4)\*\***

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.

**11002 Foundations of Modern Thought II (4)\*\***

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.

**22001 Introduction to Jewish Studies (3)**

Introductory examination of issues of Jewish life, culture, religion and society from antiquity to the present. Prerequisite: none.

**22069 Introduction to Lesbian, Gay, Bisexual and Transgendered Studies (3)**

An introductory examination of lesbian, gay, bisexual and transgender issues from an interdisciplinary perspective. Prerequisite: none.

**30196 Individual Investigation (1-3)**

(Repeated registration permissible) Registration requires prior approval from the College of Arts and Sciences office. Prerequisite: special approval.

**30210 Social structure and Processes in Europe (3)**

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.



**30891 Introductory Seminar in Comparative Literature (4)**

A seminar presenting a variety of methods and critical approaches of comparative literature through study of selected texts and critics from several national literatures. Prerequisites: special approval.

**40197 Russian Area Studies Colloquium (3)**

Interdisciplinary investigation of selected basic problems in 19th- and 20th-century Russia and the U.S.S.R. Prerequisites: special approval.

**40897 Colloquium in Comparative Literature (4)**

Comparative study of major themes, types, authors or movements across historical, cultural and disciplinary boundaries. Prerequisites: special approval.

**43001 Legal Information Sources and Services (3)**

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.

**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.*

*Requests for the scheduling of these courses are made by faculty members or students to the sponsoring departments or to the dean. The departments concerned clear the proposed course with the Curriculum Committee of the college.*

Because the content varies with each offering, any of these courses may be repeated for credit.

**10095 Special Topics (1-5)\*****20095 Special Topics (1-5)\*****30095 Special Topics (1-5)****40095 Special Topics (1-5)**

\*Course ineligible to be repeated for GPA recalculation.

\*\*Courses offered only at Regional Campuses.

**American Sign Language (ASL)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > American Sign Language (ASL)

For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.

**19201 Elementary American Sign Language I (4)**

(Cross-listed with SPED 19201) Introduction to American Sign Language and the culture of the American signing community, in an immersion setting. Prerequisite: none.

**19202 Elementary American Sign Language II (4)**

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

**29201 Intermediate American Sign Language I (3)**

(Cross-listed with SPED 29201) 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. Prerequisite: ASL 19202 or SPED 19202.

**29202 Intermediate American Sign Language II (3)**

(Cross-listed with SPED 29202) 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. Prerequisite: ASL 29201 or SPED 29201.

**39201 Advanced American Sign Language I (3)**

(Cross-listed with SPED 39201) 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. Prerequisite: ASL 29202 or SPED 29202.

**39202 Advanced American Sign Language II (3)**

(Cross-listed with SPED 39202) 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.

**49092 Practicum in American Sign Language(1-3)**

(Cross-listed with SPED 43092) 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. S/U grading. Prerequisites: ASL 29202 or SPED 29202; and special approval.

**49096 Individual Investigation (2-3)**

(Cross-listed with SPED 43996) Individual investigation of problems in American Sign Language, ASL pedagogy and/or deaf culture. IP grade permissible. Prerequisite: departmental special approval.

**49108 American Sign Language Linguistics I (3)**

(Cross-listed with SPED 43108) 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 the class. Successful presentation of cumulative portfolio required prior to registration. Prerequisite: ASL 29202.

**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.

**49201 Advanced Proficiency (3)**

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 passage of the Sign Language Proficiency Interview (SLPI).

**49309 Introduction to Deaf Studies (3)**

(Cross-listed with SPED 43309) 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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**49350 American Sign Language Literature (3)**

Through the use of multimedia resources, students 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.

**49401 Deaf Culture and Community (3)**

(Cross-listed with SPED 43101) 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.

**49601 Activity Design, Implementation and Evaluation (3)**

Students 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 Sign Language Proficiency Interview (SLPI) at an intermediate level.

**Aerospace Studies (ASTU)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Aerospace Studies (ASTU)

**10101 The Foundation of the United States Air Force I (1)**

Survey course providing an introduction to the U.S. Air Force and ROTC. Officership and military customs and courtesies are discussed. Foundations of Air Force communication are covered. Prerequisite: none.

**10102 The Foundation of the United States Air Force II (1)**

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.

**10103, 10104 Leadership Laboratory (1 Each)**

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. S/U grade permissible. Prerequisite: none.

**20101 Evolution of United States Air Force Air and Space Power I (1)**

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.

**20102 Evolution of the United States Air Force Air and Space Power II (1)**

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.

**20103, 20104 Leadership Laboratory (1 Each)**

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. S/U grade permissible. Prerequisite: none.

**30101 Leadership Studies I (3)**

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: special approval.

**30102 Leadership Studies II (3)**

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: special approval.

**30103, 30104 Leadership Laboratory (1 Each)**

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. S/U grading. Prerequisite: none.

**40101 Defense Studies I (3)**

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: special approval.

**40102 Defense Studies II (3)**

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: special approval.

**40103 Leadership Laboratory (1)**

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. S/U grading. Prerequisite: none.

**40104 Leadership Laboratory (1)**

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. S/U grading. Prerequisite: none.

**Athletic Training (ATTR)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Athletic Training (ATTR)

**15001 Introduction to the Profession of Athletic Training (1)**

An overview of the profession of athletic training; including employment opportunities, academic and clinical preparation; an introduction to basic knowledge and skills utilized in the profession. Prerequisite: athletic training (ATTR) major.

**15011 Introduction to Clinical Athletic Training (2)**

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.

**15092 Practicum in Athletic Training I (2)\***

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. IP grade permissible. Prerequisite: ATTR 15011 and special approval.

**25036 Principles of Athletic Training (3)**

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.



**25037 Physical Assessment Techniques for the Lower Extremity and Spine (3)**

Anatomical and clinical assessment techniques for injuries and illnesses with specific emphasis on orthopedic and neurological assessment strategies for the lower extremity and spine. Proper referral and care procedures are also addressed. Prerequisites: ATTR 25036 and PEP 25051.

**25038 Physical Assessment Techniques for the Upper Extremity, Head and Neck (3)**

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 addressed. Prerequisites: ATTR 25036 and 25037; and ATTR 25057 or EXSC 25057.

**25057 Human Anatomy Physiology I (3)**

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.

**25058 Human Anatomy Physiology II (3)**

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.

**35054 Biomechanics (3)**

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 25058; and ATTR 25058 or EXSC 25058.

**25092 Practicum in Athletic Training II (2)\***

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. IP grade permissible. Prerequisite: ATTR 15092.

**35025 Essentials of Athletic Injury Management (1)**

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.

**35037 Advanced Physical Assessment Techniques (3)**

Anatomical, medical and clinical assessment techniques for injuries and illnesses common to the physically active. Emphasis on neurological and nonorthopedic assessment strategies for proper referral and care. Prerequisite: ATTR 25037 and 25038; and ATTR 25058 or EXSC 25058.

**35039 Therapeutic Modalities (3)**

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 also addressed. Prerequisite: ATTR 25036.

**35040 Strength and Conditioning I (1)**

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.

**35045 Emergency Medical Technician-Basic (5)**

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. Prerequisite: ATTR 25036.

**35092 Practicum in Athletic Training III (2)**

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. IP grade permissible. Prerequisites: ATTR 25092.

**45017 Professional Development in Athletic Training (3)**

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. Prerequisites: senior standing and athletic training (ATTR) majors only.

**45038 Organization and Administration of Athletic Training (3)**

Investigation into current philosophies and legal aspects of athletic training. Organization and administration of all aspects of athletic training programs. Prerequisite: ATTR 25036.

**45039 Therapeutic Rehabilitation (4)**

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: ATTR 25036; and ATTR 25057 or EXSC 25057.

**45040 Pathology and Pharmacology for Allied Health Care Providers (3)**

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. Prerequisites: ATTR 25036; and ATTR 25057 or EXSC 25057.

**45091 Senior Seminar in Athletic Training (1)**

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. Prerequisite: senior standing and athletic training (ATTR) major.

**45096 Individual Investigation in Athletic Training (1-3)**

Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration. IP permissible. Prerequisite: special approval.

**45192 Practicum in Athletic Training IV (3)**

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 and proficiencies are required. Prerequisite: ATTR 35092.

**45292 Internship in Athletic Training (4)**

(Repeatable once for a total of 8 hours) Internship in approved athletic training setting under the direct supervision of a certified athletic trainer. Sixty clock hours required for each credit hour. IP grade permissible. Prerequisites: ATTR 45192.

**46095 Special Topics in Athletic Training (1-3)**

(Repeatable) Selected topics in athletic training dependent upon interest. Prerequisite: none.

*\*Course ineligible to be repeated for GPA recalculation.*

## Business Management and Related Technology (BMRT)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Business Management and Related Technology (BMRT)

### *Courses offered only at Regional Campuses*

#### **11000 Introduction to Business (3)**

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.

#### **11006 Business Computations I (3)**

Application of algebraic and arithmetic concepts to accounting, finance and marketing. Computation of finance charges, taxes, fundamentals of inventory control and depreciation. Prerequisite: US 10006 or appropriate test score; and ENG 11001 or appropriate test score.

#### **11009 Introduction to Management Technology (3)**

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.

#### **21000 Business Law and Ethics I (3)**

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.

#### **21002 Business Law and Ethics II (3)**

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.

#### **21004 Introduction to Business Statistics (3)**

Basic decision-making statistics for business management. Emphasis is on probability theory, statistical inferences and decision making under uncertainty. Prerequisite: MATH 11011.

#### **21005 Purchasing and Supply Management (3)**

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.

#### **21006 Human Resources Management (3)**

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 or special approval of BMRT faculty.

#### **21008 Case Studies in Management Technology (3)**

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.

#### **21009 Seminar in Management Technology (3)**

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.

#### **21011 Fundamentals of Financial Management (3)**

Understanding basic financial reports for analysis and performance of a business. Preparation of sales forecasts to develop capital and expense budgets. Prerequisites: ACTT 11000 and COMT 11000, or special approval of BMRT faculty.

#### **21020 Introduction to Entrepreneurship (3)**

Provides information about the functional elements of starting a small business. Includes the use of instruments, exercises and case analyses to assess entrepreneurial skills. IP grade permissible. Prerequisite: none.

#### **21023 Financing the Business Venture (3)**

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.

#### **21050 Fundamentals of Marketing Technology (3)**

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.

#### **21051 Fundamentals of Retailing (3)**

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.

#### **21052 Professional Selling Techniques (3)**

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.

#### **21053 Advertising in Business (3)**

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 11050 or special approval of BMRT faculty.

#### **21054 Insurance Principles (2)**

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.

#### **21055 Retail Merchandising (3)**

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.

#### **21056 Principles of Visual Display (3)**

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.

#### **21092 Internship in Management Technology (1-3)\***

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. IP grade permissible. Prerequisite: special approval of full-time BMRT faculty.

#### **21095 Special Topics (1-3)\***

(Repeated registration permissible) Special topics in business technology announced when scheduled. Prerequisite: special approval of full-time BMRT faculty.

#### **21096 Individual Investigation in Business Technology (1-3)\***

Individual study in business and related fields. Open to business technology students only. IP grade permissible. Prerequisite: special approval of full-time BMRT faculty.

*\*Course ineligible to be repeated for GPA recalculation.*

## Biological Sciences (BSCI)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Biological Sciences (BSCI)

**NOTE:** *Students planning on majoring or minoring in the biological sciences in the College of Arts and Sciences or the College of Education, Health and Human Services must enroll in BSCI 10110 and 10120. Non-majors should enroll in BSCI 10001 and 10002 series OR in courses specifically designated in the students' program of study. Some biological science courses (i.e. 10001, 10002, 20001, 20020, 20021, 20022, 30030, 30050 and 40020) are not accepted for credit in any biological sciences major or minor. Credit toward any biological sciences major or minor will not be permitted for a mixture of courses from the major series (10110 and 10120) and the nonmajor series (10001, 10002, 20001, 20002, 20020 and 20021). A total of not more than 6 hours of any combination of BSCI 40099, 40191, 40192, 40193 or 40196 may be used toward fulfillment of the elective options and of these no more than 4 hours may be S/U graded.*

### 10001 Human Biology (3)

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. This course may be used to satisfy the Kent Core Requirements.

### 10002 Life on Planet Earth (3)

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. This course may be used to satisfy the Kent Core Requirements.

### 10003 Laboratory Experience in Biology (1)

Introductory college-level laboratory in biology for non-majors. Two hours of laboratory per week. Pre- or corequisite: BSCI 10001 or 10002. This course may be used to satisfy the Kent Core Requirements. Special fee: \$25 flat fee—subject to change.

### 10010 Lake Erie Environmental Science (3)\*\*

Principles and concepts of aquatic sciences and their relationship and application to marine business ventures in the Great Lakes region. Prerequisite: none.

### 10100 Anatomy for Veterinary Technicians (5)\*\*

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. Four-hour lecture and three-hour lab weekly. Prerequisite: none.

### 10110 Biological Diversity (4)

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.

### 10120 Biological Foundations (4)

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. Special fee: \$25 flat fee—subject to change.

### 10195 Special Topics in Biology (1-3)\*

(repeatable for a total of 99 hours) Selected subjects and/or themes in biology. Prerequisite: special approval.

### 11001 Anatomy for Physical and Occupational Therapy (5)\*\*

This course covers the organization of the human body with emphasis on the structure and function of the neuro-musculo-skeletal systems. Prerequisite: none.

### 11010 Anatomy and Physiology I for Allied Health (3)

Anatomy and physiology to include organization of the human body, cells, tissues, organs and systems, integumentary, skeletal, muscular and respiratory systems and overview of the nervous and circulatory system. Prerequisite: special approval.

### 11020 Anatomy and Physiology II for Allied Health (3)

Anatomy and physiology of the circulatory, digestive, urinary, nervous, endocrine and reproductive systems. Prerequisite: BSCI 11010 and special approval.

### 16001 Horticultural Botany (3)\*\*

To provide students with an understanding of the basic anatomy and physiology and growth characteristics of plants. Two-hour lecture and three-hour lab weekly; offered only at the Geauga and Salem campuses. Prerequisite: none.

### 20001 Zoological Foundations of Medicine (4)

General zoology, including elements of human and mammalian physiology, anatomy and histology. Two-hour lecture and four-hour lab weekly. Prerequisite: special approval (required of first-year students in Phase I of NEOUCOM's combined B.S./M.D. program).

### 20020 Biological Structure and Function (5)

Basic design of human systems emphasizing the physiochemical and cellular bases of organ-system structure, function and development. Four-hour lecture and three-hour lab weekly. Prerequisite: none. Special fee: \$20 flat fee—subject to change. This course may be used to satisfy the Kent Core Requirements.

### 20021 Basic Microbiology (3)

Principles of microorganisms having a direct relationship on the health and well-being of man. Prerequisites: BSCI 20020; or BSCI 10100 and 10110.

### 20022 Basic Microbiology Laboratory (1)

Lab experience in microbiology. Three-hours of lab per week. Cannot be used to satisfy degree requirements for biology majors. Corequisite: BSCI 20021. Special fee: \$12 flat fee—subject to change.

### 20195 Special Topics in Biology (1-3)\*

(Repeatable for a total of 99 hours) Selected subjects and/or themes in biology. Prerequisite: special approval.

### 20196 Introduction to Individual Investigation (1-2)\*

Introduction to research in the biological sciences under the direction of a BSCI faculty mentor. S/U grading; IP grade permissible. Prerequisite: 8 credit hours of BSCI courses with a minimum grade of C (2.0) in those courses. Departmental and faculty mentor approvals required.

### 26002 Ecological Principles of Pest Management (3)\*\*

Basic principles of integrated pest management, pesticide application, pest identification and environmental effects. Offered only at the Salem campuses. Prerequisites: BSCI 16001.

### 26003 Plant Identification and Selection I (3)\*\*

Identification and selection of horticulturally important plant species. Emphasis on woody species, shrubs and trees. Two-hour lecture and three-hour lab weekly. Offered only at the Geauga and Salem campuses. Prerequisites: HORT 16001 and BSCI 16001.

### 26004 Plant Identification and Selection II (3)\*\*

Identification and selection of horticulturally important plant species. Emphasis on herbaceous species, ground covers and vines. Two-hour lecture and three-hour lab weekly. Offered only at the Geauga and Salem campuses. Prerequisites: BSCI 16001 and HORT 16001.

### 30005 Career Pathways in Biology (1)

Orients students toward various career pathways in the biological sciences. Prerequisites: BSCI 10110 and 10120.

### 30030 Human Physiology (4)

Integrating mechanisms, pharmacological and pathological considerations for selected organ systems. Prerequisites: BSCI 20020; or 10110 and 10120; and 9 credit hours of chemistry (CHEM) courses.

**30050 Human Genetics (3)**

Modern concepts of genetics applicable to the human, including examination of genetically related diseases and their societal implications. Prerequisites: 8 credit hours of biology and 5 credit hours of chemistry.

**30140 Cell Biology (4)**

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. Special fee: \$50 flat fee—subject to change.

**30156 Elements of Genetics (3)**

Principles of organic mechanisms for expression and transmission of traits as studied in molecules, cells, organisms and populations. Prerequisites: BSCI 10110 and 10120.

**30171 General Microbiology (4)**

Fundamental principles of microbiology and of organisms including their structure, physiology, genetics, pathogenicity, classification, mechanisms of cultivation and control. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 30140 and CHEM 10060 and 10061 and 10062 and 10063. Special fee: \$50 flat fee—subject to change.

**30267 Plant Physiology (4)**

Survey of physiological and biochemical processes, their interactions and effect on plant growth and behavior. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 30140 and CHEM 10060 and 10061 and 10062 and 10063.

**30274 Forestry (2)**

Management of the forest resource within appropriate environmental constraints for sustained use relative to watershed protection, lumber production, recreation and wildlife. One-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120.

**30275 Local Flora (4)**

Identification and field study of local plants: native, naturalized and cultivated. Two-hour lecture and six-hour lab weekly. Prerequisites: BSCI 10110 and 10120. Special fee: \$50 flat fee—subject to change.

**30277 Economic Botany (2)**

Biology of plants important to man and their relation to climate and geography. Two-hour lecture weekly. Prerequisites: BSCI 10110 and 10120.

**30360 General Ecology (4)**

Principles of ecology based on field studies of local plant and animal communities. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120 and MATH 11011 and junior or senior standing. Special fee: \$30 flat fee—subject to change.

**30361 Biogeography (3)**

Geographical distribution of biotic communities with special reference to North America and to their environmental control. Three-hour lecture weekly. Prerequisites: BSCI 10110 and 10120.

**30362 Introduction to the Biology of the Tropics (3)**

Biology and conservation of tropical ecosystems and organisms. Prerequisite: biological sciences (BSCI) major with junior or senior standing.

**30518 Vertebrate Anatomy (4)**

Concepts and methods of functional morphology. Comparative study of vertebrate organs and systems: skeletal, muscular, digestive, respiratory, circulatory, urogenital, nervous and endocrine. Three-hour lecture and three-hour lab weekly. Prerequisite: BSCI 10110 or 10120. Special fee: \$50 flat fee—subject to change.

**30519 Vertebrate Embryology and Developmental Anatomy (4)**

Gametogenesis, fertilization, embryogenesis, organogenesis, normal/abnormal embryological development; emphasizing mammal; amphibian, bird illustrating general principles and concepts. Lab studies of frog, chick, pig developmental anatomy. Three one-hour lectures and one three-hour lab. Prerequisites: BSCI 20001 or 30518; and 30140. Special fee: \$25 flat fee—subject to change.

**30520 Introduction to Neuroscience (3)**

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. Prerequisites: BSCI 10110 and 10120.

**30560 Invertebrate Zoology (4)**

Survey of the animal kingdom emphasizing evolutionary developments. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120. Special fee: \$40 flat fee—subject to change.

**30580 Entomology (4)**

Classification, biology and ecology of the principal groups of insects. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120 and 10 credit hours of biology (BSCI) courses. Special fee: \$25 flat fee—subject to change.

**30582 Ornithology (4)**

Field study of natural history of local birds. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120. Special fee: \$50 flat fee—subject to change.

**40020 Biology of Aging (3)**

Aging in cells, plants and animals, including man; maintaining human health during aging; current theories of aging. Three-hour lecture weekly. Prerequisites: BSCI 20020 and CHEM 10050 and 10052.

**40099 Senior Honors Thesis (1-10)**

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. IP grade permissible. Prerequisite: departmental, faculty mentor and Honors College approval.

**40142 Bioenergetics (3)**

Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles. Three-hour lecture weekly. Prerequisites: BSCI 30140; and CHEM 20481 or 30481.

**40143 Eukaryotic Cell Biology (3)**

Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Three-hour lecture weekly. Prerequisites: BSCI 30140; and CHEM 20481 or 30481.

**40146 Developmental Mechanisms (3)**

Fundamental concepts and paradigms of development as exemplified by major model organisms, with main focus on modern molecular and genetic understanding of developmental mechanisms. Prerequisites: BSCI 30140 and 30156 both with a grade of B (3.0) or better; and senior standing.

**40150 Molecular Mechanisms of Disease: Cancer (3)**

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. Prerequisites: BSCI 30140 and 30156; junior or senior standing.

**40158 Molecular Biology (3)**

Molecular genetics, DNA and RNA structure, chromosomes, DNA replication, recombination, genetic transcription and translation, gene expression, current concepts and technologies. Prerequisites: BSCI 30140 and 30156.

**40159 Molecular Biology Lab (2)**

Experience in research methods for studying cellular and molecular processes in plant and animal systems. Lab meets six hours weekly. Prerequisites: BSCI 30140; and BSCI 40143 or 40158; and CHEM 20481 or 30481; and CHEM 30475. Special fee: \$50 flat fee—subject to change.

**40160 Marine Biology (3)**

Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture three hours. Prerequisite: BSCI 20560.

**40162 Soil Biology (3)**

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. Prerequisites: BSCI 10110 and 10120; and junior or senior standing.

**40163 Organic Evolution (3)**

History of evolutionary theory, the evidences of evolution, the evolutionary forces and the products of these forces. Three-hour lecture weekly. Prerequisites: BSCI 30156 and 4 hours of biology (BSCI) courses.

**40164 Molecular Systematics and Phylogenetics (4)**

Modern methods used in systematics, DNA sequencing, DNA fingerprinting, phylogenetic analysis and interpretation of character evolution. Three-hour lecture and three-hour lab weekly. Prerequisite: BSCI 40163.

**40165 History of Biology (2)**

Historical development of biology from antiquity to the present. Lecture two hours weekly. Prerequisites: BSCI 10110 and 10120.

**40170 Stream Biology (3)**

Identification, biology and ecology of stream-inhabiting organisms. Two-hour lecture, three-hour laboratory weekly. Prerequisites: BSCI 10110 and 10120.

**40174 Immunology (3)**

Survey of the mammalian host responses to self and nonself 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 three hours weekly. Prerequisites: BSCI 30171 and CHEM 10060 and 10061 and 10062 and 10063.

**40191 Senior Seminar (1)**

A capstone seminar course to examine biological topics and scientific contributions across subdisciplines. Discussion of current problems in the biological sciences related to societal needs and concerns. Prerequisites: biology (BSCI) major and junior standing.

**40192 Internship in Biological Sciences (3-12)**

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. Prerequisites: 18 hours of biology (BSCI) and 2.75 minimum GPA in biology coursework and special approval.

**40193 Variable Title Workshop in Biological Sciences (1-6)**

Topics to be offered will meet specific needs in the biological sciences. S/U graded. Prerequisite: special approval.

**40195 Special Topics in Biology (1-3)**

IP grade permissible. Prerequisites: 18 hours of biology (BSCI) coursework and special approval of instructor. Special course fees may be assessed.

**40196 Individual Investigation (1-3)**

Research study under the direction of a BSCI faculty mentor. May be repeated; however a maximum of 6 credit hours counts toward BSCI degrees as upper-division elective hours. Prerequisites: a minimum BSCI grade average of 2.75 and at least 18 credit hours of BSCI coursework. Departmental and faculty mentor approvals required.

**40269 Biology of the Algae (4)**

Morphology, ecology and systematics of freshwater and marine algae. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120 and 10 credit hours biology (BSCI) coursework. Special fee: \$28 flat fee—subject to change.

**40272 Plant Anatomy (4)**

Development and structure of cells, tissues and tissue systems of seed plants. Both vegetative and reproductive structures of angiosperms will be emphasized. Two-hour lecture and six-hour lab weekly. Prerequisites: BSCI 10110 and 10120.

**40275 Systematic Botany (4)**

Biosystematics, angiosperm phylogeny, survey of some major families of dicotyledons. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120.

**40277 Morphology of Lower Plants (4)**

Nonvascular plants, emphasizing structure, reproduction, evolution, fossil history, economic, ecological and medical importance. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120. Special fee: \$5 flat fee—subject to change.

**40360 Ichthyology (4)**

Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly. Prerequisites: BSCI 10110 and 10120 both with a grade of C (2.0) or better; and junior or senior standing.

**40363 Microbial Ecology (3)**

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/corequisites: BSCI 30171 and 30360.

**40364 Limnology (4)**

Field and lab study of the principles of aquatic ecology. Recitation one hour, lecture two hours, lab three hours weekly. Prerequisite: BSCI 30360. Special fee: \$40 flat fee—subject to change.

**40367 Limnological Techniques (2)**

Analysis and significance of ecologically important variables and constituents of surface waters. Lecture one hour, lab four hours weekly. Prerequisite: BSCI 40364.

**40368 Wetland Ecology and Management (4)**

Lecture, lab 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. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120 and 10 hours of biology (BSCI) coursework. Special fee: \$50 flat fee—subject to change.

**40369 Lake Management (3)**

Lecture/discussion related to management of lakes and reservoirs, emphasizing eutrophication problems. Current literature and problem-solving techniques emphasized. Prerequisite: BSCI 40364.

**40372 Populations, Communities and Ecosystems (4)**

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. Prerequisites: BSCI 30360 and 40163.



**40374 Conservation Biology (4)**

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.

**40376 Tropical Field Biology and Conservation (5)**

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: BSCI 10110 and 10120; and junior or senior standing.

**40430 Animal Physiology (3)**

Physiologic principles and concepts. Three-hour lecture and three-hour lab weekly. Prerequisites: BSCI 30140 and CHEM 10060 and 10061 and 10062 and 10063.

**40432 Endocrinology (3)**

Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Prerequisite: BSCI 40430.

**40433 Mammalian Physiology I (3)**

The internal environment, metabolism and energy balance, temperature regulation, nervous system and special senses. Corequisite: BSCI 40444. Prerequisites: BSCI 40430 and 9 credit hours mathematics (MATH) coursework or 20 credit hours chemistry (CHEM) coursework.

**40434 Mammalian Physiology II (3)**

Physiology of cardiovascular, renal, respiratory and digestive systems. Corequisite: BSCI 40445. Prerequisites: BSCI 40430 and 9 credit hours mathematics (MATH) coursework or 20 credit hours chemistry (CHEM) coursework.

**40435 Reproductive Physiology of Mammals (3)**

Current concepts of reproductive processes based on studies with lab and domestic animals and man. Prerequisites: BSCI 40430 and 40432.

**40439 Environmental Physiology (4)**

Effects of heat, cold, oxygen, carbon dioxide, pressure, radiant energy, salt and water variations and other environmental factors on organisms. Prerequisites: BSCI 10110 and 10120 and CHEM 10060 and 10061 and 10062 and 10063.

**40444 Mammalian Physiology Laboratory I (1)**

Lab experimentation emphasizing physiological principles covered in BSCI 40433. Corequisite: BSCI 40433. Special fee: \$40 flat fee—subject to change.

**40445 Mammalian Physiology Laboratory II (1)**

Lab experimentation emphasizing physiological principles covered in BSCI 40434. Four-hour lab weekly. Corequisite: BSCI 40434. Special fee: \$40 flat fee—subject to change.

**40515 Animal Behavior (3)**

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.

**40517 Histology (3)**

Study of the microscopic and submicroscopic structure of the mammalian body in relation to function. Two-hour lecture and three-hour lab weekly. Prerequisites: BSCI 10110 and 10120 and 30140 and 4 credit hours of biology (BSCI) coursework.

**40525 Wildlife Resources (3)**

Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Prerequisites: BSCI 10110 and 10120 and 4 credit hours biology (BSCI) coursework.

**40556 Vertebrate Zoology (4)**

Field approach to identification and natural history of all Ohio vertebrates except birds. Three-hour lab and three hours field weekly. Prerequisites: BSCI 10110 and 10120 and 4 credit hours biology (BSCI) coursework.

**40581 Animal Parasitology (4)**

Morphology, physiology, life-histories, systematics and economic importance of parasites. Lecture two hours, lab six hours weekly. Prerequisites: BSCI 10110 and 10120 and 4 credit hours biology (BSCI) coursework.

**40600 Writing in the Biological Sciences (1)**

Writing-intensive course taken with a 3- or 4-credit-hour upper-division biology course. Prerequisites: biology (BSCI) major and junior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

*\*Course ineligible to be repeated for GPA recalculation.*

*\*\*Courses offered only at Regional Campuses.*

**Biotechnology (BTEC)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Biotechnology (BTEC)

**10210 Introduction to Biotechnology (3)**

Basic principles and applications of modern biotechnology, including recombinant DNA technology, microbial technology, fermentation, genetic engineering, plant and animal tissue culture and medical biotechnology. Three-hour lecture weekly. Prerequisite: BSCI 10120.

**40191 Seminar: Recent Developments in Biotechnology (1)**

Recent developments in biotechnology explored through the presentation and discussion of research articles and reviews in the biotechnology literature. Prerequisites: BTEC 10210 and BSCI 30140 and 30171 and 30156 and CHEM 30284.

**40192 Internship in Biotechnology (2-9)**

Work experience in a biotechnology lab. Registration requires approval of program director and is dependent on availability of internship sites. Written report of activities required. S/U grading, IP grade permissible. Prerequisite: biotechnology (BTEC) major.

**40196 Individual Investigation in Biotechnology (2-9)**

Research experience in biotechnology. Registration requires approval of program director and research director. Written report required. S/U grading, IP grade permissible. Prerequisite: biotechnology (BTEC) major.

**40210 Case Studies in Biotechnology (3)**

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. Prerequisites: BTEC 10210 and BSCI 30140 and 30171 and 30156 and 40158 and CHEM 30284 and 40248.

**40220 Bioinformatics (2)**

Analysis of biological databases including nucleic acid and protein sequence searching, multiple sequence alignments, protein classification, phylogenetic analysis, comparative genomics, proteomics, protein structure analysis. Prerequisites: BSCI 30140 and 30171 and 30156 and 40158 and CHEM 30284 and 40248.



## Business Administration Interdisciplinary (BUS)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Business Administration Interdisciplinary (BUS)

\*Course ineligible to be repeated for GPA recalculation

### 10123 Exploring Business (3)

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. Prerequisite: none.

### 10195 Special Topics (1-3)\*

Special topics course that is offered on a semester basis with different topics and different faculty. IP permissible. Prerequisite: special approval.

### 20192 Internship in Business (1-3)\*

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization. Prerequisite: special approval.

### 20195 Special Topics (1-3)\*

Special topics course that is offered on a semester basis with different topics and different faculty. IP permissible. Prerequisite: special approval.

### 20293 Variable Title Workshop in Business (1-3)\*

Variable topics. Prerequisite: none.

### 30195 Special Topics (1-3)

Special topics course that is offered on a semester basis with different topics and different faculty. IP permissible. Prerequisite: special approval.

### 30234 International Business (3)

Learn how international business is affected by the forces of globalization: opportunities, threats and challenges that ensue from hypercompetition, and the institutional checks and balances necessary to prevent complexity deteriorating into chaos. Prerequisites: ACCT 23020 and ECON 22060 and 22061 and FIN 36053 and MKTG 25010.

### 40192 Internship in Business (1-3)

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization. Prerequisite: special approval.

### 40195 Special Topics (1-3)

Special topics course that is offered on a semester basis with different topics and different faculty. IP permissible. Prerequisite: special approval.

## College of the Arts (CA)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > College of the Arts (CA)

\*Course ineligible to be repeated for GPA recalculation.

### 20000 Performing Arts I (3)

An interarts 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.

### 20001 Performing Arts II (3)

Continuation of Performing Arts I. Prerequisite: none.

### Special Topics

### 10195 Special Topics in the College of the Arts (1-5)\*

### 20295 Special Topics in the College of the Arts (1-5)\*

### 30395 Special Topics in the College of the Arts (1-5)

### 40495 Special Topics in the College of the Arts (1-5)

*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 schools concerned clear the proposed course with the Curriculum Committee of the college.*

## Center for Applied Conflict Management (CACM)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Center for Applied Conflict Management (CACM)

### 11001 Introduction to Conflict Management (3)

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. This course may be used to satisfy the Kent Core Requirement and diversity requirement.

### 21002 Gender, Power and Conflict (3)

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.

### 21010 Cross-Cultural Conflict Management (3)

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. This course may be used to satisfy the diversity requirement.

### 22020 International Conflict Resolution (3)

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 peacebuilding practices. Conflicts covered include international and civil wars as well as topics such as international terrorism. Prerequisite: none. This course may be used to satisfy the diversity requirement.

### 25095 Special Topics (3)\*

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.

### 31003 Nonviolence: Theory and Practice (3)

Examines the nature of violence and nonviolence on various structural levels and in different contexts. Prerequisite: none.

### 31010 Conflict Theory (3)

Explores theoretical models of conflict and addresses cultural dimensions of conflict, gender and conflict and the functions of power in conflict. Prerequisite: CACM 11001.

### 32020 Strategic Planning (3)

Course provides training in strategic planning, including assessing the current environment, developing goals and objectives and establishing a timeline for action. Prerequisite: junior standing.

### 33030 Conflict in the Workplace (3)

Explores the causes, impact and dynamics of conflict in the workplace. Issues explored include personality conflict, incivility, ethics, teams, management styles, diversity, legal issues, alternative dispute resolution, union environments and workplace violence. Prerequisite: CACM 11001.

**34040 Negotiation (3)**

Explores the dynamics of negotiation occurring in different contexts from both a theoretical and practical perspective. Prerequisite: CACM 11001.

**35050 Environmental Conflict Resolution (3)**

Examines alternative dispute resolution principles applicable to public sector disputes, especially environmental and land use disputes. Prerequisite: none.

**35092 Internship in Conflict Management (3-12)**

(Repeatable for a total of 12 hours) Students work as interns with an organization, group or business, utilizing and enhancing their skills in conflict management. IP grade permissible. Prerequisites: junior standing and two upper-division CACM courses.

**35095 Special Topics in Conflict Management (3)**

(Repeated registration permitted) 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 website. Prerequisite: none.

**36096 Individual Investigation in Conflict Management (3)**

Individualized program of study and literature review in area of particular interest to the student. IP grade permissible. Prerequisites: junior standing and completion of two of the following courses: CACM 31003 or 31010 or 32020 or 33030 or 34040 or 35050 or 35095 or 38080 or 41010 or 49091.

**38080 Mediation: Theory and Training (3)**

Examines the historical development of mediation. Teaches mediation skills necessary to become a practicing mediator. Prerequisite: CACM 11001.

**41010 Reconciliation Versus Revenge: Transitional Justice (3)**

"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. Prerequisites: CACM 22020 and 1 upper-division CACM course; and junior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department and the diversity requirement.

**42020 Qualitative Research in Conflict Management (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**45093 Variable Topic Workshop in Conflict Management (1-6)**

Variable topic offered as need arises. Specific topics will be announced in the Schedule of Classes. S/U grading. Prerequisite: special approval.

**49091 Variable Title Seminar in Conflict Management (1-3)**

Seminar devoted to detailed study of various topics in the field of conflict management. Specific topics are announced in the Schedule of Classes and on the Center for Applied Conflict Management's website. Prerequisite: senior standing.

*\*Course ineligible to be repeated for GPA recalculation.*

**Computer Animation Engineering Technology (CADT)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Computer Animation Engineering Technology \(CADT\)](#)

**22000 Advanced CAD (2)**

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.

**22001 CAD: Architecture (2)**

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.

**22002 CAD: Civil Applications (2)**

A course on the use of computer-aided drafting and design for civil engineering applications. Prerequisite: none.

**22003 Solid Modeling (2)**

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.

**22004 Computer Animation and Gaming (3)**

3D modeling and computerized techniques. Introduction to the basic concepts, terminology and techniques of 3D modeling, lighting, shading, imaging and animation. Prerequisite: none.

**22005 Multimedia and Game Design (2)**

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.

**College of Communication and Information (CCI)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > College of Communication and Information \(CCI\)](#)

**10095 Special Topics in Communication and Information (1-3)\***

(Repeatable up to 99 credit hours) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework. Prerequisite: none.

**40095 Special Topics in Communication and Information (1-3)**

(Repeatable up to 99 credit hours) Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework. IP permissible. Prerequisite: none.

*\*Course ineligible to be repeated for GPA recalculation.*

**Counseling and Human Development Services (CHDS)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Counseling and Human Development Services \(CHDS\)](#)

**10001 Introduction to a Career in Teaching (2)**

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 preprofessional experience coordinated by ACHVE department. Prerequisite: none.

**10002 Introduction to Careers in Education, Health and Human Services (3)**

Explores roles of educators and health and human service providers in community and school settings. Introduction to work of professionals in such areas as youth organizations; recreational, mental health and child and family services; museums and parks; and health and allied health agencies. Assessment of career interests is conducted. Prerequisite: none.

**20092 Field Experience I: Middle Childhood (1)\***

Course augments from an experiential perspective knowledge of early adolescence period of development. Placement in school settings (30 hours). S/U grading; IP grade permissible. Corequisite: HDFS 24013.

**37700 Human Relations in a World of Diversity (3)**

Emphasizes the study/practice of facilitative human relations in personal and work/career spheres. Topics include but not limited to, gender, sexual orientation, multiculturalism, conflict resolution, value clarification and family influence. Prerequisite: none.

**37800 Small Group Process (2)**

(Cross-listed with HED 34060) 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.

**37900 Applied Studies Cornerstone (3)**

Cornerstone course for the major in applied 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: major in applied studies (APST) and special approval.

**40093 Variable Title Workshop in Counseling and Human Development Services (1-4)**

(Repeated registration permissible) Topics of special interest to students who desire to increase their knowledge in counseling and related areas. Kent State faculty and experts from other institutions and agencies. Topics will be announced in the Schedule of Classes. S/U grading. Prerequisite: none.

**41791 Seminar: Educational Studies and Helping Professions (3)**

Directed discussion applying concepts from previous educational experiences to the internship work experience. Corequisite: CHDS 41892.

**41892 Internship in Educational Studies and Helping Professions (10)**

Placement in a worksite congruent with student's career aspirations. Ten hours/week for 15 weeks for two semesters or 20 hours/week for 15 weeks, one semester for a total of 300 hours. S/U grading; IP grade permissible. Corequisite: CHDS 41791. Prerequisite: senior standing.

**44084 Behavioral Science in Health Professions (1-3)**

(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: special approval.

**47900 Applied Studies Capstone Seminar (4)**

Designed to help students articulate and integrate the ten competencies that are part of the bachelor's degree in applied studies. In part, an electronic portfolio will be used to help describe familiarity with competencies. Prerequisite: major in applied studies (APST) and special approval.

*\*Course ineligible to be repeated for GPA recalculation.*

**Chemistry (CHEM)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Chemistry (CHEM)

*Because of the substantial overlap in course content, credit will not be accepted for a mixture of courses from two or more of the following series: CHEM 10050, 10052, 10053; CHEM 10054; CHEM 10060, 10061, 10062, 10063; CHEM 10960, 10961. Credit will not be granted for both the physical science 11660-11661 series and any of the beginning chemistry series listed above.*

**10030 Chemistry in Our World (3)**

A course for nonscience majors which utilizes environmental and consumer topics to introduce chemical principles and develop critical thinking skills. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

**10031 Chemistry in Our World Laboratory (1)**

Discovery-based experiments to introduce chemical principals and develop critical thinking skills. A course for nonscience majors; includes chemistry that is related to environmental and consumer issues. Pre/corequisite: CHEM 10030. Special fee: \$35 flat fee—subject to change. This course may be used to satisfy the Kent Core Requirements.

**10050 Fundamentals of Chemistry (3)**

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 10006 or 10007 or 10022 or 10023 or 10024 or 11009 or 11012 or 12001 or 12002 or 12011 or 12021. This course may be used to satisfy the Kent Core Requirements.

**10052 Introduction to Organic Chemistry (2)**

Chemistry of organic and biological molecules necessary for the study of physiological chemistry. Prerequisite: CHEM 10050 or 10060. This course may be used to satisfy the Kent Core Requirements.

**10053 Inorganic and Organic Laboratory (1)**

Lab with experiments covering material from CHEM 10050, 10052 and 10054. Corequisite: CHEM 10052. Prerequisite: CHEM 10050 or 10054. Special fee: \$35 flat fee—subject to change. This course may be used to satisfy the Kent Core Requirements.

**10054 General and Elementary Organic Chemistry (5)**

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 10006 or 10007 or 10022 or 10023 or 10024 or 11009 or 11012 or 12001 or 12002 or 12011 or 12021. This course may be used to satisfy the Kent Core Requirements.

**10060 General Chemistry I (4)**

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 MATH 11009 or 11012 or 12001 or 12002 or 12011 or 12021.

**10061 General Chemistry II (4)**

Continuation of CHEM 10060, emphasizing intermolecular forces, properties of mixtures, main group chemistry, kinetics, equilibrium, acid-base chemistry, thermodynamics and electrochemistry. Prerequisite: CHEM 10060.

**10062 General Chemistry I Laboratory (1)**

Lab covering pertinent aspects of CHEM 10060. Three hours weekly. Pre/corequisite: CHEM 10060. Special fee: \$35 flat fee—subject to change.

**10063 General Chemistry II Laboratory (1)**

Lab covering pertinent aspects of CHEM 10061, including qualitative analysis. Prerequisite: CHEM 10062 and pre/corequisite: CHEM 10061. Special fee: \$35 flat fee—subject to change.

**10960 Honors General Chemistry (5)**

Rigorous general chemistry course for qualified students. Stoichiometry, equilibrium, thermodynamics, kinetics, bonding and structure. Four-hours lecture and three-hour lab weekly. Prerequisite: special approval. Special fee: \$35 flat fee—subject to change.

**10961 Honors General Chemistry (5)**

A continuation of CHEM 10960. Prerequisite: CHEM 10960. Special fee: \$35 flat fee—subject to change.

**16001 Horticultural Chemistry (4)\*\***

This course is designed to give a general overview of basic chemical concepts to students pursuing the two-year degree in horticulture technology. Three-hour lecture and three-hour lab weekly. Offered only at the Salem Campus. Prerequisite: none. Special fee: \$20 flat fee—subject to change.

**20095 Special Topics (1-3)\***

(Repeated registration permissible) Selected topics in chemistry. Prerequisite: special approval.

**20098 Introduction to Chemical Research (1-3)\***

Research experience for freshmen and sophomores. Registration requires prior approval of the research director. Does not count toward the electives for BS or BA chemistry degree. A written report is required. S/U grading; IP grade permissible. Prerequisites: 2.50 GPA in chemistry (CHEM) and special approval.

**20111 Elementary Quantitative Analysis (4)**

Theory and application of volumetric analysis; acid-base, gravimetric, complexation, redox; spectroscopic, electroanalytical and chromatographic methods of analyses. For nonmajors. Prerequisites: CHEM 10063 or 10053 and special approval.

**20112 Elementary Quantitative Laboratory (2)**

Lab practice of methods discussed in 20111. Six-hour lab weekly. Pre/corequisite: CHEM 20111. Special fee: \$40 flat fee—subject to change.

**20284 Physiological Chemistry (4)**

Chemistry and metabolism of carbohydrates, lipids, nucleic acids and proteins; regulation of metabolism, nature of enzyme action, clinical aspects of biochemistry. Prerequisite: CHEM 10052 or 10054 or 20481.

**20285 Physiological Chemistry Lab (1)**

Experiments to illustrate basic biochemical techniques, structure and metabolism. Three-hour lab weekly. Pre/corequisite: CHEM 20284. Special fee: \$20 flat fee—subject to change.

**20481 Basic Organic Chemistry I (4)**

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.

**20482 Basic Organic Chemistry II (2)**

Continuation of CHEM 20481, emphasizing the chemistry of functional groups prevalent in biological chemistry. Prerequisite: CHEM 20481 or 30481.

**30050 Introduction to Materials Chemistry (2)**

This course provides an introduction to materials and their applications. It serves as the initiation for the materials chemistry concentration. Prerequisites: CHEM 10061 or 10961; and CHEM 30481 and PHY 23101.

**30105 Analytical Chemistry I (3)**

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.

**30106 Analytical Chemistry II (2)**

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. Prerequisites: CHEM 30105.

**30107 Analytical Chemistry Laboratory I (1)**

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. Pre/corequisite: CHEM 10063 and 30105. Special fee: \$60 flat fee—subject to change. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**30108 Analytical Chemistry Laboratory II (2)**

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. Prerequisite: CHEM 30105. Pre/corequisite: CHEM 30107. Special fee: \$80 flat fee—subject to change. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**30284 Introductory Biological Chemistry (4)**

Chemistry and metabolism of biochemically important compounds; nature of enzyme action; metabolic regulation and bioenergetics. Prerequisite: CHEM 20481; or CHEM 30481 and 30482.

**30285 Biochemistry Laboratory (1)**

Experiments on the isolation, purification and characterization of biologically important molecules; recombinant DNA technology. Prerequisite: CHEM 10063. Pre/corequisite: CHEM 30284 or 40245 or 40247. Special fee: \$40 flat fee—subject to change.

**30301 Inorganic Chemistry I (2)**

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.

**30475 Organic Chemistry Laboratory I (1)**

Practical experience in organic lab techniques on both micro- and macroscale: physical methods for purification and characterization of organic compounds, introduction to organic reactions. Prerequisite: CHEM 10063. Pre/corequisite: CHEM 20481 or 30481. Special fee: \$60 flat fee—subject to change.

**30476 Organic Chemistry Laboratory II (1)**

Continuation of CHEM 30475, involving multistep organic experiments that utilize techniques introduced in CHEM 30475. Prerequisite: CHEM 30475. Pre/corequisite: CHEM 20482 or 30482. Special fee: \$60 flat fee—subject to change.

**30481 Organic Chemistry I (3)**

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.

**30482 Organic Chemistry II (3)**

Continuation of CHEM 30481; organic chemistry from mechanistic and synthetic viewpoints; IR and NMR spectroscopy; mass spectrometry. Prerequisite: CHEM 30481.

**40053 Materials Chemistry Laboratory (2)**

Exploration of the synthesis, characterization and application of inorganic and organic materials. Prerequisite: CHEM 30050. Special fee: \$40 flat fee—subject to change.

**40093 Variable Title Workshop in Chemistry (3-6)**

S/U grading. Prerequisite: special approval.

**40099 Senior Honors Thesis (1-10)**

For departmental honors, may be started summer prior to senior year. Register each semester during senior year. Minimum total credit—5 hours. IP grade until completion. Prerequisite: departmental and Honors College approval.



**40112 Advanced Analytical Chemistry (2)**

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.

**40113 Chemical Separations (3)**

Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography. Prerequisite: CHEM 30106.

**40114 Electroanalytical Chemistry (3)**

The physical basis of electrochemistry; instrumentation and applications in chemical analysis. Polarography, coulometry, voltammetry and ion-selective electrodes. Prerequisite: CHEM 40555.

**40195 Special Topics in Analytical Chemistry (1-3)**

(Repeated registration permissible) Selected topics in analytical chemistry. Prerequisite: special approval.

**40245 Biochemical Foundations of Medicine (4)**

Chemistry and metabolism of biologically important compounds; enzyme catalysis; metabolic regulation, inborn and induced errors of metabolism. For students in integrated life science program. Prerequisites: CHEM 30481. Pre/corequisite: CHEM 30482.

**40248 Advanced Biological Chemistry (3)**

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.

**40251 Advanced Biological Chemistry Laboratory (2)**

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. Special fee: \$120 flat fee—subject to change. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**40261 Principles of Biochemistry I (3)**

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.

**40262 Principles of Biochemistry II (3)**

Supramolecular and cellular aspects of biochemistry including DNA replication, repair, recombination and modification; transcription and translation; signal transduction, post-translational modification; transcriptomics and proteomics. Prerequisite: CHEM 40261 or 40245.

**40263 Physical Biochemistry I (3)**

Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems, spectroscopy, structure and properties of biological molecules. Prerequisite: CHEM 40555.

**40295 Special Topics in Biochemistry (1-3)**

Selected topics in biochemistry. Prerequisite: special approval.

**40302 Inorganic Chemistry II(2)**

Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solid state and materials chemistry, nanomaterials, nanoscience and nanotechnology. Prerequisite: CHEM 30301.

**40303 Inorganic Chemistry III(2)**

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 40302.

**40352 Inorganic Materials Chemistry (3)**

Broad survey of the synthesis, properties, characterization and applications of inorganic materials. Prerequisites: CHEM 30050.

**40364 Intermediate Inorganic Chemistry Laboratory (1)**

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. Special fee: \$60 flat fee—subject to change.

**40365 Biological Inorganic Chemistry (3)**

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 30301.

**40395 Special Topics in Inorganic Chemistry (1-3)**

Selected topics in inorganic chemistry. Prerequisite: special approval.

**40451 Organic Materials Chemistry (3)**

Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials. Prerequisites: CHEM 30482 and 30050.

**40476 Spectroscopic Identification of Organic Compounds (2)**

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.

**40477 Intermediate Organic Chemistry Laboratory (1)**

Continuation of CHEM 30476, including hands-on use of a high-field NMR spectrometer; single and multistep organic syntheses. Prerequisite: CHEM 30476. Special fee: \$60 flat fee—subject to change.

**40478 Synthesis of Organic Liquid Crystals (3)**

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.

**40483 Intermediate Organic Chemistry (1)**

Continuation of CHEM 30482. Organic chemistry from mechanistic and synthetic viewpoints. Prerequisites: CHEM 30481 and 30482.

**40495 Special Topics in Organic Chemistry (1-3)**

Selected topics in organic chemistry. Prerequisite: special approval.

**40555 Elementary Physical Chemistry (3)**

Fundamental concepts of physical chemistry, with example problems chosen emphasizing applications in chemistry and the biological sciences. Prerequisites: PHY 23102 and MATH 22005 and CHEM 10061; and chemistry (CHEM) major and junior standing. Pre- or corequisite: CHEM 30107.

**40556 Elementary Physical Chemistry (3)**

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.

**40557 Physical Chemistry Lab (2)**

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. Special fee: \$60 flat fee—subject to change.

**40567 Basic Concepts of Physical Chemistry (4)**

Traditional aspects of physical chemistry with minimal calculus treatment. Applications to the health sciences emphasized. Cannot be used to satisfy requirements for chemistry concentration within the Bachelor of Science in Chemistry. Prerequisites: CHEM 10062 and PHY 13002 and MATH 12002.

**40568 Elementary Physical Chemistry Laboratory (1)**

Provides hands-on experience with calorimetry, viscosimetry and spectroscopic techniques. Prerequisite: CHEM 40555 or 40567. Special fee: \$60 flat fee—subject to change.

**40570 Intermediate Physical Chemistry (2)**

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.

**40571 Surface Chemistry (2)**

Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Two-hour lecture weekly. Prerequisite: CHEM 40555 or 40567.

**40575 Molecular Spectroscopy (3)**

Survey of the fundamental principles of the interactions 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.

**40583 Physical Chemistry of Macro-molecules (2)**

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.

**40595 Special Topics in Physical Chemistry (1-3)**

Selected topics in physical chemistry. Prerequisite: special approval.

**40795 Current Topics in Chemical Education (1-3)**

Recent advances in chemical research, instrumentation and theory important to chemical educators. S/U grading. Prerequisite: special approval.

**40796 Individual Investigation (1-8)**

Registration requires prior approval of the research director. Written report required. Maximum of 2 hours may be applied to the 4-credit-hour CHEM 40000 elective requirement for the chemistry concentration within the B.S. in chemistry. S/U grading; IP grade permissible. Prerequisite: 2.50 GPA in chemistry and special approval.

*\*Course ineligible to be repeated for GPA recalculation.*

*\*\*Courses offered only at Regional Campuses.*

**Chinese (CHIN)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Chinese (CHIN)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

**15101 Elementary Chinese I (5)**

An introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures. Prerequisite: none.

**15102 Elementary Chinese II (5)**

A continuation of the introduction to Mandarin Chinese in the context of modern Chinese-speaking cultures. Prerequisite: CHIN 15101.

**25201 Intermediate Chinese I (5)**

Continued development of speaking, listening, reading and writing skills, using a variety of cultural materials. Prerequisite: CHIN 15102.

**25202 Intermediate Chinese II (5)**

Continuation of CHIN 25201. Prerequisite: CHIN 25201.

**30095 Special Topics (3)**

Topic to be announced in Schedule of Classes. Prerequisite: special approval.

**35201 Advanced Intermediate Chinese I (5)**

Continuation of Intermediate Chinese II. Emphasis is on building active vocabulary for comprehension, reading authentic texts, writing of connected discourse and the development of conversation proficiency. Prerequisite: CHIN 25202.

**35202 Advanced Intermediate Chinese II (5)**

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.

**45201 Advanced Chinese I (5)**

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.

**45202 Advanced Chinese II (5)**

Continuation of Advanced Chinese I. Prerequisite: CHIN 45201.

**45301 Chinese Culture (3)**

Survey of Chinese culture including ethnic, religious and linguistic diversity and the roots of China's current socio-cultural context. Prerequisite: none.

**45302 Business Chinese (3)**

Study of the business protocol, language functions, texts and vocabulary associated with travel and business in the Chinese-speaking world. Prerequisite: CHIN 35202.

**Curriculum and Instruction (CI)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Curriculum and Instruction (CI)

**40093 Variable Title Workshop in Curriculum and Instruction (1-5)**

Variable topic workshop designed to respond to curriculum trends and issues, and specialized needs. S/U grading, IP grade permissible. Prerequisite: special approval.

**47095 Special Topics in Curriculum and Instruction (1-5)**

IP grade permissible. Prerequisite: special approval.

**47096 Individual Investigation in Curriculum and Instruction (1-5)**

Prerequisite: special approval.

**47195 Special Topics in Curriculum and Instruction (1-5)**

Student teaching. S/U grading, IP grade permissible. Prerequisite: special approval.

**47330 Reading and Writing in Adolescence/Adulthood (3)**

Understanding of literacy learning in adolescence and adulthood (ages 12-21) with an emphasis on strategies for text learning, literacy in electronic environments and the teaching of students who struggle as readers and writers. Prerequisite: admission to advanced study.



**47501 Teaching Mathematics in Early and Middle Grades (3)**

Addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards. Prerequisites: advanced standing and minimum C (2.0) grade in MATH 14001 or 14002. Special fee: \$5/credit hour—subject to change.

**47502 Science Teaching in Early and Middle Grades (3)**

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 science standards. Prerequisite: admission to advanced study. Course fee: \$5/credit hour—subject to change.

**47503 Teaching Social Studies in Early and Middle Grades (3)**

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.

**47504 Teaching Reading and Writing in Middle Grades (3)**

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.

**Classics (CLAS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Classics (CLAS)

**21201 English Words From Classical Elements (3)**

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.

**21404 The Greek Achievement (3)**

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. This course may be used to satisfy the Liberal Education Requirements (LER) and diversity requirement.

**21405 The Roman Achievement (3)**

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. This course may be used to satisfy the Liberal Education Requirements (LER) and diversity requirement.

**21406 Sport and Ancient Daily Life (3)**

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.

**40793 Variable Title Workshop in Classics (1-6)**

Workshops individually designed to provide instruction and training in specific areas of classical studies. S/U grading. Prerequisite: departmental special approval.

**41006 Roman History (3)**

(Cross-listed with HIST 41006) A survey of Roman history from its beginnings to the fall of the Roman Empire. Prerequisite: junior standing.

**41092 Field Experience in Classics (1-4)**

Travel-based study/field experience in Classics at a site or sites away from Kent State University under the supervision of members of the CClassics 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 school. The course may be repeated for a maximum of 7 credit hours if the destination differs. Prerequisite: none.

**41095 Special Topics in Classics (3)**

Topics announced in the schedule of classes. Prerequisite: none.

**41096 Individual Investigation (1 or 3)**

(Repeatable for a total of 9 hours) Investigation of problems in archaeology, mythology and ancient comparative literature. IP grade permissible. Prerequisite: departmental special approval.

**41097 Colloquium in Classics (3)**

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.

**41301 Classical Mythology (3)**

Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature. Prerequisite: sophomore standing.

**41401 Greek Archaeology and Art (3)**

(Cross-listed with ARTH 42031) 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.

**41402 Roman Archaeology and Art (3)**

(Cross-listed with ARTH 42032) 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.

**41503 Greek Literature in Translation (3)**

Major works of Greek literature, studied in their historical context and by genre; knowledge of Greek is not required. Prerequisite: junior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**Clinical Laboratory Sciences (CLS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) >

Clinical Laboratory Sciences (CLS)

*The courses listed below have been developed for and enrollment is limited to students admitted to the professional study year of the medical technology program.*

**49010 Clinical Microbiology: Theory (4)**

Theoretical consideration of lab isolation, cultivation, identification and characterization of pathogenic microorganisms. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49011 Clinical Microbiology: Applications (4)**

Applied and practical considerations of theoretical aspects of laboratory isolation, cultivation, identification and characterization of pathogenic microorganisms. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49012 Clinical Immunology: Theory (1)**

Theoretical considerations of lab practices involving quantitation and detection of antigens and antibodies and the significance of these findings in pathological states. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49013 Clinical Immunology: Applications (1)**

Applied and practical consideration of laboratory practices in immunology and serology relating to diagnosis of disease states. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49014 Clinical Mycology: Theory and Applications (1)**

Theoretical, applied and practical consideration of the isolation, identification and characterization of pathogenic fungi and their relation to human disease states. Letter grades and IP.

Prerequisite: medical technology (MEDT) major.

**49015 Clinical Parasitology: Theory and Applications (1)**

Theoretical, applied and practical considerations of the isolation, identification and characterization of human parasites and their relations to pathologic conditions. Letter grades and IP.

Prerequisite: medical technology (MEDT) major.

**49020 Clinical Chemistry: Theory (4)**

Theoretical considerations of the principles of clinical chemistry relating to the identification and quantitation of biologically important substances in blood and other body fluids. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49021 Clinical Chemistry: Applications (4)**

Applied and practical considerations of clinical chemistry principles relating to significant changes in body fluids as the result of pathologic conditions. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49022 Urinalysis: Theory (1)**

Theoretical considerations of the physiological activities of the renal system together with lab principles of analysis of urine and other body fluids. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49023 Urinalysis: Applications (1)**

Applied and practical considerations of lab practices in urine and other body fluid analysis as aids in diagnosis of disease. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49030 Immunohematology: Theory (2)**

Theoretical consideration of lab procedures involved in blood grouping and typing; identification of blood group antigens and antibodies; collection and preparation of blood for transfusion. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49031 Immunohematology: Applications (2)**

Applied and practical consideration of lab methods for the administration of blood and its components. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49032 Coagulation: Theory and Applications (1)**

Theoretical consideration of the coagulation mechanism and its relation to pathological states; identification of abnormalities and deficiencies.

Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49033 Clinical Hematology: Theory (2)**

Theoretical considerations of the development of formed elements; identification of marrow and blood cells; study of normal and abnormal cellular blood components. Letter grades and IP.

Prerequisite: medical technology (MEDT) major.

**49034 Clinical Hematology: Applications (2)**

Applied and practical consideration of lab methods and procedures in identification and enumeration of normal and abnormal formed elements of blood. Letter grades and IP.

Prerequisite: medical technology (MEDT) major.

**49040 Topics in Laboratory Management (1)**

(Repeatable for a total of 4 hours) Consideration of topics relating to safety, education, personnel, budgeting, scheduling and medical-legal problems. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**49095 Special Topics in Medical Technology (1-4)**

(Repeatable for a total of 4 hours) Topical consideration of special techniques encountered in nuclear medicine, cytology, cytogenetics, virology, toxicology and special instrumentation. Letter grades and IP. Prerequisite: medical technology (MEDT) major.

**Communication Studies (COMM)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Communication Studies (COMM)

**15000 Introduction to Human Communication (3)**

An inquiry into the nature and function of human communication in interpersonal, group and public contexts. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

**20000 Foundations of Communication (3)**

This cornerstone course will introduce pre-communication studies majors to the communication discipline by acquainting students with career information, major requirements, skills needed in major courses and database and Internet search strategies. Prerequisite: pre-communication studies (PCOM) major.

**20001 Interpersonal Communication (3)**

Introduction to human interpersonal communication. Components and structures, situations and contexts are described; non-evaluative focus with emphasis on informal experience. Prerequisite: none.

**21000 Communication Grammar Review (1)**

Designed to increase grammar, punctuation, spelling, and syntax skills and proficiency. Students must earn a minimum grade of C (2.0) 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 program. Does not count toward Communication course requirements. Prerequisite: none.

**25454 Intercollegiate Forensics I (1-2)\***

(Repeatable for a total of 8 credit hours) Practicum in intercollegiate forensics for freshmen, sophomores and beginning forensic students. Maximum of 4 credit hours may apply to the communication major. S/U grading. Prerequisite: special approval.

**25464 Argumentation (3)**

Introduction to principles of oral and written argumentation. Prerequisite: COMM 15000.

**25851 Communication for Teachers (3)**

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.

**25863 Business and Professional Communication (3)**

Fundamentals of public and conference speaking, conducting meetings, electronic presentations, interviewing and interpersonal relations as applied to business and organizational settings. Prerequisite: none.

**25902 Communication Theory (3)**

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.

**26000 Criticism of Public Discourse (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**26001 Public Communication in Society (3)**

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. Prerequisites: none.

**30000 Communication Research Methods (3)**

Introduction to qualitative and quantitative research methods in communication. Students should complete this course early in their program of study. Prerequisites: cumulative GPA of 2.25 or better; and COMM 20000 with a grade of C (2.0) or better; and COMM 25902; and a score of 680 or better on the grammar test or COMM 21000 with a grade of C (2.0) or better.

**35454 Intercollegiate Forensics II (1-2)**

(Repeatable for a total of 8 credit hours) Advanced practicum in intercollegiate forensics for juniors and seniors with forensics experience. Maximum of 4 credit hours may apply to the communication major. S/U grading. Prerequisite: special approval.

**35550 Small Group Communication (3)**

An examination of group communication in social and family contexts throughout the life span. 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 2.25 or better.

**35600 Communication in Teams (3)**

Examines communication processes and research related to teambuilding, decision-making, task groups and leadership within the organizational context. 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 2.25 or better.

**35852 Intercultural Communication (3)**

Theory and application of communication between people of different cultures and different national systems. Prerequisite: none. This course may be used to satisfy the diversity requirement.

**35860 Interviewing (3)**

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.

**35864 Organizational Communication (3)**

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 2.25 or better. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**35912 Gender and Communication (3)**

Examines influence of gender in interpersonal and organizational communication including communication processes in interpersonal violence, STDs and other contemporary social problems. Prerequisite: none. This course may be used to satisfy the diversity requirement.

**40001 Advanced Interpersonal Communication (3)**

Advanced treatment of interpersonal communication theory and research. Interpersonal principles are applied to group and organizational contexts. Prerequisites: 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 2.25 or better. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41000 Sports Communication (3)**

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.

**42000 Media, War and Propaganda (3)**

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.

**45006 Media Use and Effects (3)**

Examination of the ways in which communication scholars have conceptualized and analyzed media processes, uses and effects. Issues explored include media portrayals, news coverage, political campaigns, sex and violence in the media, media entertainment, children and television and newer communication technologies. Prerequisite: none.

**45007 Freedom of Speech (3)**

Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and socio-legal-rhetorical issues. Prerequisite: none.

**45091 Seminar in Communication Studies (1-4)**

(Repeatable for a total of 9 credit hours) Examination of selected communication topics/areas and related research. Prerequisite: none.

**45092 Internship in Communication Studies (3-6)**

A formal, cooperative field experience with a designated organization or agency, as designed by the students and the internship coordinator. S/U grading; IP grade permissible. Prerequisite: special approval.

**45093 Variable Title Workshop in Communication (1-5)**

No more than 3 credits may be counted as part of the upper-division credits required in the communication studies major. S/U grading. Prerequisite: none.

**45095 Special Topics in Communication Studies (1-6)**

Offered when unusual resources permit a topic different from existing courses. Topic is announced when scheduled. S/U grading. Prerequisite: none.

**45154 Rhetorical Criticism (3)**

Standards of criticism in public discourse and methods for their application in persuasive speaking. 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 2.25 or better. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**45196 Independent Study: Communication Studies (1-6)**

(Repeatable for a total of 6 credits) Readings and/or research on problems approved by undergraduate coordinator in consultation with students' advisor and faculty project director. S/U grading; IP grade permissible. Prerequisites: communication studies (COMM) major and special approval.

**45459 Communication and Conflict (3)**

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: 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 2.25 or better.

**45807 High Impact Professional Speaking (3)**

Principles and practices of effective communication in a variety of professional contexts. Emphasis on professional presentation skills development. Prerequisites: COMM 15000 and junior standing.

**45865 Organizational Communication Training and Development (3)**

Theory and application of diagnosing communication problems in an organization and the intervention process. Prerequisites: COMM 35864 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 2.25 or better.

**45902 Communication and Influence (3)**

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. Prerequisites: COMM 25902 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 2.25 or better. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**45957 Language and Meaning (3)**

Examines the influence of verbal codes in human communication. Theories of meaning are explored through readings, field study and class exercises. Prerequisite: COMM 25902. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**45959 Nonverbal Communication (3)**

Survey of theory and research in nonverbal codes of communication through readings, field study and classroom interaction. Prerequisite: COMM 30000 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 2.25 or better.

**45960 Health Communication (3)**

Examines communication processes and research related to health and health care from the perspectives of public, professional and primary discourses. Prerequisite: none.

**46091 Senior Seminar (3)**

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. IP grade permissible. Prerequisites: 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 2.25 or better; and senior standing.

**46092 Practicum in Applied Communication (3)**

A formal cooperative field experience with a designated organization or agency, as designed by the student and the practicum director. IP grade permissible. Prerequisite: COMM 35864 and JMC 20005 and VCD 37000 and senior standing.

\* Course ineligible to be repeated for GPA recalculation.

**Computer Technology (COMT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Computer Technology (COMT)

**11000 Introduction to Computer Systems (3)**

Covers the basic concepts and use of computer systems, including hardware, personal productivity software, Internet usage and file management. Prerequisite: none.

**11002 Visual Basic Programming (3)**

Laboratory course in the visual basic net language introducing concepts of object-oriented, event driven program design and implementation. Prerequisite: Compass Algebra test score of at least 41 or Compass Pre-algebra test score of at least 61.

**11003 Selected Programming Languages (2-4)\***

Lab 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.

**11004 Survey of Information Technology (3)**

This overview course will provide an introduction to information technologies, career paths and professional certifications available. Prerequisite: none.

**11005 Introduction to Operating Systems and Networking Technology (3)**

(Cross-listed with ITAP 16605) Lab-oriented survey of desktop/network OS essentials including file/disk management, system tools utilization, resource sharing and introductory network concepts. Prerequisite: none.

**11006 Introduction to Web Site Technology (3)**

Focuses on web site technologies including HTML. Students learn the history of the Internet and effective search techniques. Prerequisite: none.

**11009 Computer Assembly and Configuration (4)**

Lab course covering disk operating system function and features; hardware/software installation procedures; file and directories management; system configuration/optimization; backup procedures. Prerequisite: COMT 11005 or COMT faculty special approval.

**12000 Personal Productivity Software (3)**

Covers the concepts and integration of computer applications. Emphasis on software suites, specifically word processing, electronic spreadsheets, database and presentation applications. Prerequisite: none.

**20001 C++ Programming (3)**

Laboratory 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: Compass Algebra test score of at least 41 or Compass Pre-algebra test score of at least 61.

**20011 Java Programming (3)**

Laboratory 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: minimum 51 Compass Algebra test score.

**21002 Network Setup and Configuration (4)**

Lab course introducing networking in LAN and WAN environments. Topics include network protocol, configuration, operation, setup, installation, administration, management and security. Pre/corequisite: COMT 11009 or COMT faculty special approval.

**21005 Visual Basic Database Programming (4)**

Advanced lab course in the visual basic language focusing on database systems development. Prerequisite: COMT 11002.

**21006 Assembly Language Programming (3)**

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.

**21007 Internet Ethics and Policies (3)**

This course will cover the ethics, issues and policies regarding the Internet. It includes discussion/ research on intellectual property/freedom, hacking, pornography, privacy, etc. Prerequisite: none.

**21008 Computer Methods in Science and Engineering (3)**

Use of computers in problems related to science and engineering. Course will include introduction to elements of a high-level scientific language. Prerequisites: MATH 12001 and 19001.



**21009 Seminar in Computer Technology (3)**

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.

**21010 Workgroup Productivity Software (3)**

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.

**21011 Techniques of Multimedia Web Design (3)**

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.

**21036 Web Scripting I (3)**

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. Prerequisites: COMT 11002 and COMT 11006, or COMT faculty special approval.

**21092 Computer Practicum (2)**

(Cross-listed with MATH 21092) Supervised work experience in a computer installation. S/U grading. Prerequisite: COMT 11009.

**21095 Special Topics in Computer Technology (1-4)\***

Topics announced when scheduled. Prerequisite: special approval.

**21096 Individual Investigation in Computer Technology (1-4)\***

Individual study in computer field. Open to computer technology majors. Prerequisite: special approval.

**21100 Local Area Network Troubleshooting (3)**

Lab 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.

**21110 Internetworking (3)**

Lab course introducing Internetworking concepts. Topics will include networking standards, cabling, TCP/IP, router configuration, LAN and WAN segments and other related topics. Prerequisites: COMT 21002 or full-time COMT faculty special approval.

*\*Course ineligible to be repeated for GPA recalculation.*

*\*\*Courses offered only at Regional Campuses.*

**Computer Science (CS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Computer Science (CS)

**10001 Computer Literacy (3)**

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. Special fee: \$40 flat fee—subject to change.

**10051 Introduction to Computer Science (4)**

An introductory, broad and hands-on coverage of aspects of computer science including: algorithms, problem solving, operating systems concepts, computer architecture and programming languages. Three credit lecture with one credit lab. Prerequisites: MATH 11009 or 11010 or 480 SAT and Compass Algebra score of 55; or minimum 20 ACT and Compass Algebra score of 55; or minimum 620 SAT and Compass Algebra score of 36; or minimum 26 ACT and Compass Algebra score of 36. Special fee: \$40 flat fee—subject to change. This course may be used to satisfy the Kent Core Requirements.

**10061 Introduction to Computer Programming (3)**

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 480 SAT and Compass Algebra score of 55; or minimum 20 ACT and Compass Algebra score of 55; or minimum 620 SAT and Compass Algebra score of 36; or minimum 26 ACT and Compass Algebra score of 36. Special fee: \$40 flat fee—subject to change.

**13401 User-level Computer Security (3)**

Introduction to computer and network safety; detection and removal of viruses, detection and defense against spyware and rootkits, 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. Special fee: \$25 flat fee—subject to change.

**19995 Special Topics in Computer Science (1-3)\***

(Repeat registration permissible) Special topics from all areas of computer science. Prerequisite: special approval.

**23021 Computer Science I—Programming and Problem Solving (4)**

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. Three-hour lecture and one-hour lab weekly. Prerequisite: minimum C (2.0) grade in CS 10051. Special fee: \$40 flat fee—subject to change.

**23022 Discrete Structures for Computer Science (3)**

(Cross-listed with MATH 23022) 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. Prerequisites: Minimum grade of C (2.0) in CS 10051; and minimum grade of C (2.0) in MATH 11010; or 540 SAT and Compass Algebra score of 55; or 23 ACT and Compass Algebra score of 55..

**29995 Special Topics in Computer Science (1-3)\***

(Repeat registration permissible) Special topics from all areas of computer science. Prerequisite: special approval.

**31045 Formal Logic (3)**

(Cross-listed with PHIL 31045 and MATH 31045) Study of the first order predicted calculus with identity and function symbols. Prerequisite: none.

**33001 Computer Science II - Data Structures and Abstraction (3)**

Computer science concepts and problem solving focusing on data 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: CS 23022 and minimum C (2.0) grade in CS 23021. Special fee: \$40 flat fee—subject to change.

**33006 Social and Ethical Issues in Computing (3)**

Social issues, including historical and social context, professional responsibilities, risks and liabilities, and intellectual property. Prerequisite: minimum C (2.0) grade in CS 33001. This course may be used to satisfy the writing-intensive requirement with approval of major department.



**33011 Speed Programming (3)**

(Repeated registration permissible) Discussion and practice of pertinent aspects related to programming under time constraints. Corequisite: CS 33001. Special fee: \$40 flat fee—subject to change.

**33092 Speed Programming Practicum (2)**

(Repeated registration permissible) Practice of pertinent aspects from CS 33011. Prerequisite: CS 33011. Special fee: \$40 flat fee—subject to change.

**33101 Structure of Programming Languages (3)**

Introduction to syntax, semantics, behavior and implementation issues in imperative, functional, logic and object-oriented languages; type theory, concurrency, data dependency, nondeterminism and Internet languages. Prerequisite: minimum C (2.0) grade in CS 33001.

**33192 Internship in Computer Science (1-3)**

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. S/U grading; IP grade permissible. Prerequisites: CS 33006 and special approval.

**33211 Operating Systems (3)**

Introduction to operating systems, processes and threads, CPU scheduling, mutual exclusion and synchronization, deadlock, memory management, file systems, networking and distributed systems. Prerequisites: CS 35101 and minimum C (2.0) grade in CS 33001. Special fee: \$40 flat fee—subject to change.

**33223 Unix Tools (3)**

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. Special fee: \$40 flat fee—subject to change.

**35101 Computer Architecture (3)**

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.

**38101 Introduction to Game Programming (3)**

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) in CS 33001. Special fee: \$40 flat fee—subject to change.

**39995 Special Topics in Computer Science (1-3)**

Special topics from all areas of computer science. Repeat registration permitted. Prerequisite: special approval.

**41012 Finite Mathematics (3)**

(Cross-listed with MATH 31012) 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.

**41045 Metalogic (3)**

(Cross-listed with MATH 41045 and PHIL 41045). 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.

**42201 Introduction to Numerical Computing I (3)**

(Cross-listed with MATH 42201) 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. Prerequisites: MATH 12003 and 21001 and CS 23021. Special fee: \$25 flat fee—subject to change.

**42202 Introduction to Numerical Computing II (3)**

(Cross-listed with MATH 42202) A continuation of CS 42201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations. Prerequisites: MATH 32044 and CS 42201. Special fee: \$25 flat fee—subject to change.

**43005 Introduction to Database System Design (3)**

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: minimum C (2.0) grade in CS 33001 and junior standing. Special fee: \$25 flat fee—subject to change.

**43006 Theory of Object-Oriented Programming (3)**

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. Special fee: \$25 flat fee—subject to change.

**43111 Structure of Compilers (3)**

Techniques used to write compilers including lexical analysis, syntax analysis, syntax-directed translation, type checking, run-time environments and intermediate code generation. Prerequisites: CS 35101 and 33101. Special fee: \$20 flat fee—subject to change.

**43202 Systems Administration (3)**

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. Special fee: \$55 flat fee—subject to change.

**43203 Systems Programming (3)**

Implementation and maintenance of system programs, system utilities, command interpreters, editors, file maintenance programs, text processors. Interrupt handling. Device drivers. Prerequisite: CS 33211. Special fee: \$40 flat fee—subject to change.

**43401 Secure Programming (3)**

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. Prerequisite: minimum grade of C (2.0) in CS 33001 and junior standing. Special fee: \$40 flat fee—subject to change.

**43901 Software Engineering (3)**

An introduction to software engineering concepts: life cycle models; modeling languages; requirements analysis; specification; design; testing; validation; project management and maintenance. Prerequisite: minimum C (2.0) grade in CS 33001. Special fee: \$40 flat fee—subject to change.

**44201 Artificial Intelligence (3)**

Examines goals, problems, concepts and methods of artificial intelligence, heuristic versus algorithmic methods, natural language comprehension, theorem proving. Prerequisite: CS 33001. Special fee: \$55 flat fee—subject to change.

**45111 Principles of VLSI Design (3)**

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. Special fee: \$55 flat fee—subject to change.

**45201 Computer Communication Networks (3)**

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 the World Wide Web as an example of a client-server system. Prerequisite: CS 33211 and junior standing. Special fee: \$55 flat fee—subject to change.

**45231 Internet Engineering (3)**

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. Prerequisites: CS 33001 and 33211 and 45201. Special fee: \$40 flat fee—subject to change.

**46101 Design and Analysis of Algorithms (3)**

Introduction to algorithmic concepts, design and complexity analysis of algorithms, searching, sorting, graphs, geometric, algebraic and parallel algorithms. Prerequisites: MATH 12003 and minimum C (2.0) grade in CS 33001.

**46201 Introduction to Theory of Automata, Formal Languages, Computation (3)**

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. Prerequisites: CS 23022 and MATH 12003.

**47101 Computer Graphics (3)**

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. Special fee: \$55 flat fee—subject to change.

**47105 Web Design and Programming I (3)**

(Cross-listed with VCD 46000) A joint computer science and visual communication design 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. IP grade permissible. Prerequisites: CS 33001 and VCD 37000. Special fee: \$20 flat fee—subject to change.

**47106 Web Design and Programming II (3)**

(Cross-listed with VCD 46002) 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. IP grade permissible. Prerequisite: CS 47105. Special fee: \$20 flat fee—subject to change.

**47107 Web Design and Programming Studio (3-6)**

(Cross-listed with VCD 46053) A joint computer science and visual communication design project course. Comprehensive experience on aspects of Web site creation, hosting, maintenance and management. Creative combination and integration of art and programming are emphasized. IP grade permissible. Prerequisites: CS 47106 and VCD 46003. Special fee: \$6.67/credit hour—subject to change.

**47201 Human Computer Interaction (3)**

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. Special fee: \$55 flat fee—subject to change.

**47205 Information Security (3)**

An introduction to concepts and methodology useful for information security, as specified by the NSTISSI No. 4011 standard from the NSA. Prerequisite: CS 33006. Special fee: \$40 flat fee—subject to change.

**47221 Introduction to Cryptology (3)**

Introduction to cryptography, classical cryptology, authentication, complexity issues, encryption standards, algebraic foundations, survey of existing cryptology protocols: AES/Rijndael, block chaining, asymmetric techniques. Prerequisites: minimum grade of C (2.0) in CS 33001 and junior standing. Special fee: \$25 flat fee—subject to change.

**48101 Game Engine Concepts (3)**

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. Prerequisite: minimum grade of C (2.0) in CS 38101 and 47101. Special fee: \$55 flat fee—subject to change.

**48102 Game Development Practicum (4)**

With supervision of the instructor, students will work in teams to design and implement a computer game or a 3D interactive learning environment using a game engine. Prerequisite: CS 48101. Special fee: \$55 flat fee—subject to change.

**49901 Capstone Project (4)**

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. This course is three hours lecture and one hour lab.

Prerequisites: CS 33006 and 43005 and 43901 and 45201; and junior standing.

**49995 Special Topics in Computer Science (1-4)**

(Repeat registration permissible) Special topics from all areas of computer science. Prerequisite: special approval.

**49996 Individual Study (1-4)**

Prerequisite: special approval of instructor.

**49998 Research (1-15)**

Prerequisite: special approval.

*\*Course ineligible to be repeated for GPA recalculation.*

**Career Technical Teacher Education (CTTE)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Career Technical Teacher Education \(CTTE\)](#)

**36014 Evaluation Practices in Career Technical Education (3)**

Study and construction of evaluation devices for use in lab and related technology courses, test construction, standardized and nonstandardized test procedures. This course includes 10 field/clinical hours. Prerequisite: none.

**36020 Occupational Experience: Technology (12)**

Written examination covering technology of a specific occupation. Prerequisite: department special approval.

**36021 Occupational Experience: Manipulative (12)**

Manipulative examination covering competencies and techniques of an occupation. Prerequisite: department special approval.

**40093 Variable Topic Workshop in Career Technical Education (1-5)**

Topics of special interest to students desiring to intensify their knowledge in a particular area of career technical education. S/U grading. Prerequisite: department special approval.

**45372 Issues in Career Technical Education Subjects (3)**

Exploration of issues and trends unique to specific career technical education subjects. Prerequisite: none.

**45377 Career and Technical Education: Advanced Methodologies (3)**

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.

**46001 Organization of Career and Technical Education (3)**

Study of the principles and subject areas related to career and technical education at middle school, secondary and adult education levels. Prerequisite: none. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**46002 In-Service Teaching (3)**

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.

**46003 In-Service Teaching II (1)**

Continuation of CTTE 46002. Involves professional development, licensure preparation for career technical instructors and organized class instruction. Prerequisite: none.

**46015 Methods of Career and Technical Education (3)**

Organization and management of classroom and lab; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies. Prerequisite: none.

**46017 Student-Centered Leadership in Career Technical Education (3)**

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.

**46018 Disadvantaged Youth in Career Technical Education (3)**

Developing an understanding of disadvantaged youth stressing their characteristics as they pertain to career technical education programs. Prerequisite: none.

**46019 Coordination of Career Technical Cooperative Education Programs (3)**

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.

**46020 Curriculum Guide: Design and Application (3)**

Methods and techniques involved in developing and utilizing a curriculum guide in career and technical education subjects. This course includes 15 field/clinical hours. 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.

**46031 Student Teaching in Career Technical Education (9)**

Provides a 12 week student teaching experience in a career-technical program setting. See Student Teaching section in this Catalog. S/U grading; IP grade permissible. 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 admission to advanced study and career and technical teacher education (CTTE) major. Corequisite: CTTE 49525.

**46092 Internship, Practicum and Field Experience in Career Technical Education (2-5)**

Supervised internship, practicum or field experience in specific occupations. 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.

**46095 Special Topics in Career Technical Education (1-3)**

Specialized offerings in response to emerging or selected program needs in career technical education. Prerequisite: none.

**46096 Individual Investigation in Career Technical Education (1-3)**

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.

**46192 Practicum: Occupational (1-6)**

Supervised work experience in occupation to obtain initial experience or to update skills. 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.

**49525 Inquiry into Professional Practice (3)**

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.

**Cultural Foundations (CULT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Cultural Foundations (CULT)

**20091 Preprofessional Seminar in Educational Studies (2-4)\***

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.

**29535 Education in a Democratic Society (3)**

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. Prerequisite: none.

**32139 Introduction to the Philosophy of Education (2)**

An introduction to the philosophical analysis of educational problems focusing on the goals of education and the school's role in achieving these goals. Prerequisite: junior standing.

**39595 Special Topics in Cultural Foundations (2-4)**

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.

**39596 Individual Investigation in Cultural Foundations (1-3)**

Directed independent reading and/or research of special interest or need in student program. Planned with and directed by a faculty member. IP grade permissible. Prerequisite: special approval.

**40093 Variable Title Workshop in Educational Foundations (1-4)**

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 grading. Prerequisite: special approval.

**42150 Educational Dimensions of Leisure, Retirement and Aging (3)**

An intensive inquiry into leisure and its potential for more fully optimizing development, and implications for educational practice both in school and nonschool settings. Prerequisite: junior standing or special approval of instructor.

**49570 Social Foundations of Multicultural Education (3)**

Analysis of historical, social and ideological forces which relate to current educational policies and practices in multicultural education. School and nonschool education programs will be analyzed. Prerequisite: junior standing.

*\*Course ineligible to be repeated for GPA recalculation.*

**Dance (DAN)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Dance \(DAN\)](#)

**17001 Studio Modern I (1)**

Practice of basic modern dance technique. Open to all university students. Prerequisite: none.

**17002 Studio Modern Dance II (1)**

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.

**17004 Studio Jazz I (1)**

Practice of basic jazz techniques. Open to all university students. Prerequisite: none.

**17005 Studio Jazz II (1)**

Continuation of jazz dance technique foundations with emphasis on more advanced dance combinations. Open to all university students. Prerequisite: DAN 17004.

**17007 Studio Tap I (1)**

Basic tap steps and combinations with varying sound intensities and rhythms. Open to all university students. Prerequisite: none.

**17008 Studio Tap II (1)**

Continuation of tap dance technique foundations with emphasis on more advanced dance combinations. Prerequisite: DAN 17007.

**17009 Studio Tap III (1)\***

(Repeatable for a total of 8 credit hours)  
Advanced tap dance techniques with emphasis on clarity, speed and performance skills. Prerequisite: DAN 17008.

**17010 Studio Ballet I (1)**

Introduction to the foundations of ballet placement, vocabulary and movement for the beginner. Open to all university students. Prerequisite: none.

**17011 Studio Ballet II (1)**

Continuation of ballet technique foundations with emphasis on more advanced dance combinations. Open to all university students. Prerequisite: DAN 17010.

**17013 Studio African Dance I (1)**

Designed to acquaint students with basic elements of African dance. Open to all university students. Prerequisite: none.

**17014 Studio African Dance II (1)**

Continued development of African movement styles and rhythms. Open to all university students. Prerequisite: DAN 17013.

**17016 Studio Swing Dance I (1)\***

(Repeatable to 2 credit hours) Practice of basic swing dance movements with emphasis on social partnering skills. Open to all students. Prerequisite: none.

**17049 Fundamentals of Ballet and Modern Dance (2)**

Introduction to intensive exploration of ballet and modern dance technique for non-majors with special emphasis on alignment, body awareness and movement vocabulary. Prerequisites: DAN 17001 and 17010.

**17050 Introduction to Dance (1)**

Overview of modern dance as a performing art. Specifically, focusing on preparation, basic knowledge and career choices. Prerequisites: dance (DANC) major and special approval.

**17051 Modern Dance Technique I-A (3)\***

(Repeatable for a total of 12 credit hours)  
Development of skill acquisition in basic technique, understanding and appreciation for the creative nature of dance through exposure to improvisational experiences. Prerequisites: dance (DANC) major and special approval.

**17052 Ballet I-A (2)\***

(Repeatable for a total of 8 credit hours) Ballet techniques: Pre-barre, beginning barre and beginning center work. Prerequisites: dance (DANC) major and special approval.

**17053 Principles of Dance Mechanics I (2)**

The study and application of alignment and basic movement principles to dance techniques. To be taken with DAN 17051 or 17052. Prerequisites: dance (DANC) major and special approval. Corequisites: DAN 17051 or 17052.

**17151 Modern Dance Technique I-B (3)\***

(Repeatable for a total of 12 credit hours)  
Continued exploration of basic modern dance technique and improvisation begun in DAN 17051 or equivalent. Continued study of dance innovators and their historical significance. Prerequisites: dance (DANC) major and DAN 17051 and special approval.

**17152 Ballet I-B (2)\***

(Repeatable for a total of 8 credit hours)  
Continuation of ballet techniques studied in DAN 17052 - Ballet I-A. Prerequisites: dance (DANC) major and DAN 17052 and special approval.

**27057 Dance for Children (3)\***

(Repeatable for a total of 6 hours) The theory and practice of children's dance in the preschool, elementary/middle schools, private studio and recreation settings. Prerequisite: dance (DANC) or early childhood education (ECED) major and special approval.

**27070 Introduction to Jazz Styles A (2)**

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.

**27071 Modern Dance Technique II-A (3)\***

(Repeatable for a total of 12 hours) Intermediate modern dance styles emphasizing complex movement phrases. Prerequisite: DAN 17051 and special approval.

**27072 Ballet II-A (2)\***

(Repeatable for a total of 8 credit hours)  
Intermediate ballet technique. Prerequisites: dance (DANC) major and DAN 17152 and special approval.

**27074 Dance Composition I (3)\***

(Repeatable for a total of 12 hours) Movement exploration and improvisation, including developing the body as an instrument of expression. Prerequisite: DAN 17151 and special approval. Corequisite: DAN 27071.

**27076 Dance as an Art Form (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**27170 Introduction to Jazz Styles B (2)**

Continued development of basic jazz dance skills. Prerequisite: DAN 27070 and special approval.

**27171 Modern Dance Technique II-B (3)\***

(Repeatable for a total of 12 hours) Continuation of intermediate-level dance styles with emphasis on complex movement phrases. Prerequisite: DAN 27071 and special approval.

**27172 Ballet II-B (2)\***

(Repeatable for a total of 8 hours) Continuation of intermediate ballet technique. Prerequisite: DAN 27072.

**27174 Dance Composition II: (2)\***

(Repeatable for a total of 8 credit hours) Basic principles of dance composition with attention to design, thematic material, structure, form and small groups. Prerequisite: DAN 27074 and special approval.

**37053 Principles of Dance Mechanics II (2)**

(Repeatable for a total of 16 credit hours) Continuation of DAN 17053. Prerequisite: DAN 17053 and special approval.

**37058 Methods and Materials of Dance (3)**

(Repeatable for a total of 6 credit hours) Theory and practice of teaching dance technique from middle school to adults with an emphasis on modern dance. Prerequisite: DAN 27057 and special approval.

**37067 Ballet III-A (2)**

(Repeatable for a total of 8 credit hours) Advanced ballet technique. Prerequisite: DAN 27172 and special approval.

**37068 Modern Dance Technique III-A (3)**

(Repeatable for a total of 15 credit hours) Advanced modern dance technique. Prerequisite: DAN 27171 and special approval.

**37070 Dance Composition III (2)**

(Repeatable for a total of 8 credit hours) Development of individual movement style through improvisational studies and movement manipulation exercises of structure and form resulting in a substantial solo modern dance work. Prerequisite: DAN 27174 and special approval.

**37071 Movement Notation (2)**

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 (DANC) major and special approval.

**37167 Ballet III-B (2)**

(Repeatable for a total of 8 credit hours) Continuation of advanced ballet technique. Prerequisite: DAN 37067 and special approval.

**37168 Modern Dance Technique III-B (3)**

(Repeatable for a total of 15 credit hours) Continuation of advanced modern dance technique. Prerequisite: DAN 37068 and special approval.

**37170 Dance Composition IV (1)**

(Repeatable for a total of 3 credit hours) Exploration of advanced composition skills in preparation for the B.F.A. Senior Choreography Project and future choreographic endeavors. Prerequisite: DAN 27174 and special approval.

**37192 Dance Practicum (1)**

(Repeatable for a total of 4 credit hours) Practical experience in cocurriculum dance activities under faculty supervision. S/U grading. Prerequisite: special approval.

**37271 Dance Ensemble (2)**

(Repeatable for a total of 16 credit hours) Participation in rehearsal, preparation and performance of public dance concerts in an established dance ensemble. Prerequisite: dance (DANC) major and special approval.

**47054 Modern Dance Technique IV-A (3)**

Advanced technique integrating previously learned modern dance techniques and developing advanced movement phrasing. Prerequisite: DAN 37168 and special approval.

**47055 Ballet IV-A (2)**

A continuation of DAN 37167 with increasing clarity and control of movements. Prerequisite: DAN 37167 and special approval.

**47060 Professional Aspects in Dance (2)**

(Repeatable for a total of 2 credit hours) Development of pragmatic skills for entrance into professional dance careers. Emphasis on résumé writing, preparation for auditions and economic survival. Prerequisite: DAN 27170 and special approval.

**47063 Dance History I (3)**

History of dance from antiquity to 1900. Prerequisite: dance (DANC) major and special approval.

**47070 Jazz Style-A (2)**

Jazz style for students with advanced dance technique. Prerequisite: DAN 27170 and special approval.

**47093 Variable Title Workshop in Dance (1-3)**

Offered for specific professional needs. Emphasis on performance workshops. S/U grading. Prerequisite: special approval.

**47095 Special Topics in Dance (1-3)**

(Repeatable for a total of 24 credit hours) Offered when resources permit a topic different from existing courses. Topic to be announced when scheduled. Prerequisite: dance (DANC) major.

**47154 Modern Dance Technique IV-B (3)**

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.

**47155 Ballet IV-B (2)**

A continuation of DAN 47055 with increasing clarity and dynamic expression. Prerequisite: DAN 47055 and special approval.

**47156 Dance Production (3)**

Study of elements involved in planning and implementing a concert. Experiential work in technical and management components. Prerequisite: dance (DANC) major and special approval.

**47163 Dance History II (3)**

History of the development of concert and theatrical dance forms from 1900 to present day. Prerequisites: dance (DANC) major and DAN 47063 and special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**47170 Jazz Style-B (2)**

Continuation of DAN 47070. Prerequisite: DAN 47070 and special approval.

**47174 Senior Choreography Project (1)**

(Repeatable for a total of 2 credit hours) Creation of a modern dance work to be performed with full production values in an approved setting. Prerequisite: DAN 37170 and special approval.

**47192 Internship in Dance (1)**

(Repeatable up to 4 credit hours with different age and ability groups.) Supervised dance apprenticeship in an approved educational setting. Prerequisite: dance (DANC) major and special approval.

**47193 Variable Title Workshop in Dance (1-3)**

Selected topics of interest relating to dance. S/U grading. Prerequisite: junior standing and special approval.

**47196 Individual Investigation in Dance (1-3)**

(Repeated registration not to exceed 6 credit hours) Individual projects for dance majors. IP grade permissible. Prerequisites: junior standing and special approval.

**47525 Student Teaching in Dance (9)**

(Repeatable for a total of 18 credit hours) This experience provides for a full semester of student teaching in the broadest range of multiage school settings. S/U grading; IP grade permissible. Prerequisite: dance (DANC) major and admission to student teaching and DAN 47192 and special approval.

*\*Course ineligible to be repeated for GPA recalculation.*



## Early Childhood Education (ECED)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Early Childhood Education (ECED)

### 10120 Introduction to Early Childhood Services (2)

Orientation to the field of early childhood education: historical and present-day programs and services for young children ages 0-8. Prerequisite: none.

### 20163 Understanding Young Children: Typical and Atypical Pathways (3)

Growth and development of young children from birth to age 8 as it occurs along both typical and atypical pathways. Corequisites: ECED 30134 and 30147 and 30164 and SPED 23000 and admission to advanced study.

### 30123 Language and Literacy for the Preschool Child (3)

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. Corequisites: ECED 30142 and 40145 and 40165 and 40192 and admission to advanced study.

### 30134 Integrated Expressive Arts and Social Studies in Preschool (3)

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. Corequisites: ECED 20163 and 30147 and 30164 and SPED 23000 and admission to advanced study. Special fee: \$15 flat fee—subject to change.

### 30142 Partnerships and Guidance for Preschool Children (3)

Appropriate guidance strategies set the foundation for positive experiences our youngest children in school; patterns learned early often set a foundation for primary school entry. This course addresses the concerns of guidance, family partnerships and inclusive schooling with preschool children and their educators. It takes a proactive stance helping teachers develop a constructive guidance approach. Corequisite: ECED 30123 and 40145 and 40165 and 40192 and admission to advanced study.

### 30144 Integrated Curriculum for Social Studies (3)

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. Prerequisites: ECED 30134 and admission to advanced study. Corequisites: ECED 40114 and 40126 and 40127 and 40128 and 40147.

### 30147 Early Experiences in Mathematics and Science (3)

Instructional psychology and materials for effective teaching of mathematics and science in preschool settings with a theoretical emphasis on cognitive development. Prerequisite: minimum C (2.0) in MATH 14001 and 14002 and admission to advanced study. Corequisites: ECED 20163 and 30134 and 30164 and SPED 23000. Special fee: \$15 flat fee—subject to change.

### 30164 Preschool Education (3)

Integrated curriculum utilizing principles of developmentally appropriate practice in settings for children under age 5. Field experience two mornings a week. 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. Corequisites: ECED 20163 and 30134 and 30147 and SPED 23000 and admission to advanced study.

### 40093 Variable Title Workshop in Early Childhood Education (1-5)

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include Kent State early childhood faculty members and may include experts from outside agencies and other institutions. S/U grading. Prerequisite: special approval.

### 40105 Appropriate Phonics Instruction for Kindergarten and Primary Children (3)

An examination of phonics in early reading and writing development, effective strategies for teaching and assessing phonics appropriate for kindergarten and primary grade children. Corequisites: ECED 40107 and 40142 and 40151 and EDPF 29535 and admission to advanced study.

### 40107 Teaching Mathematics: Early Years I (3)

Instructional psychology and materials for effective teaching of mathematics in grades K-1 with a theoretical emphasis on cognitive development. Prerequisites: ECED 30147 and MATH 14001 and 14002 and admission to advanced study. Corequisites: ECED 40105 and 40142 and 40151 and EDPF 29535.

### 40114 Teaching Science in the Early Years (3)

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. Special fee: \$15 flat fee—subject to change.

### 40125 Inquiry into Professional Practice (3)

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.

### 40126 Developmental Reading and Writing: Early Years (3)

This course builds on work begun in ECED 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. Course may be used to satisfy the writing-intensive requirement with approval of major department.

### 40127 Developing a Balanced Literacy Program (3)

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. Prerequisite: ECED 40105 and admission to advanced study. Corequisites: ECED 40126 and 30144 and 40114 and 40128.

### 40128 Integrated Field Experiences (3)

Participation in experiences offering opportunity to plan and teach reading, language arts, integrated content units and observe students in early childhood classrooms. 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. Corequisites: ECED 30144 and 40114 and 40126 and 40127 and 40147 and admission to advanced study.

**40142 Home-School-Community-Partnerships in Diverse Contexts (3)**

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. Prerequisites: advanced study and special approval.

**40145 Music and Rhythms in Pre-primary Education (3)**

Music and rhythms for pre-primary children. Optional course intended for majors in early childhood education or other persons desiring additional work with pre-primary children. Corequisites: ECED 30123 and 30142 and 40165 and 40192 and admission to advanced study.

**40146 Teaching with Microcomputers: Early Years (3)**

Developing competency in teaching with microcomputers in pre-kindergarten through grade three. Includes lab experience in computerized lessons and programming in Logo. Prerequisite: ITEC 47427 and admission to advanced study.

**40147 Teaching Mathematics: Early Years II (3)**

Instructional psychology and materials for effective teaching of mathematics in grades K-3 with a theoretical emphasis on cognitive development. Prerequisites: C (2.0) or better in MATH 14001 and 14002 and admission to advanced study. Corequisites: ECED 30144 and 40114 and 40126 and 40127 and 40128. Special fee: \$10 flat fee—subject to change.

**40151 Guidance of Young Children (3)**

Principles and practices of appropriate guidance for young children, intervention strategies, resources and materials for guidance. Corequisites: ECED 40105 and 40107 and 40142 and EDPF 29535 and admission to advanced study.

**40165 Integrated Application of Preschool Curriculum (3)**

Internship in preschool. Advanced integrated preschool curriculum utilizing principles of developmentally appropriate practice focusing on infant, toddler and preschool-age children. 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: ECED 30164 and admission to advanced study. Corequisites: ECED 30123 and 30142 and 40145 and 40192.

**40192 Internship in Preschool (6-12)**

Internship in preschool settings, full day for 16 weeks. S/U grading. Prerequisite: ECED 30164 and admission to advanced study. Corequisites: ECED 30123 and 30142 and 40145 and 40165.

**40196 Individual Investigation in Early Childhood Education (1-5)**

Open to seniors in ECED. Intensive individual study on an early childhood topic selected by student and advisor. Prerequisite: special approval and admission to advanced study.

**40292 Internship in Kindergarten/Primary (6-12)**

Internship in grades K-3, full day for 16 weeks. S/U grading. 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: ECED 40125 and admission to advanced study.

**Early Childhood Education Technology (ECET)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Early Childhood Education Technology (ECET)

**21005 Partnerships in Child Guidance (3)**

The course 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. 12 field experience hours required. 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: ECED 10120 and ECED 20163.

**21010 Infant/Toddler Curriculum and Services (3)**

Infant/toddler development, environments and curriculum; theoretical perspectives; family involvement; community involvement; community resources, collaboration and advocacy, 38 hours of field experience required. 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: ECED 10120 and 20163.

**21095 Special Topics in Early Childhood Education Technology (1-3)\***

Intensive study of significant current issues in the early childhood education field. Prerequisite: departmental special approval.

**21096 Individual Investigation in Early Childhood Education Technology (1-3)\***

(Repeatable for a total of 6 credit hours) Analysis and special research in the early childhood education field. Prerequisite: departmental special approval.

**22000 Preschool Curriculum (3)**

Preschoolers' development, environments and curriculum; theoretical perspectives; family involvement; community resources, collaboration and advocacy. 38 hours of field experience required. 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: ECET 21010 and ECED 20163.

**22130 Emerging Literacy (3)**

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. 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: ECED 10120 and 20163.

**22140 Student Teaching Seminar (3)**

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. Corequisites: ECET 22150; departmental special approval.

**22150 Student Teaching (6)**

Student will spend 300 hours at an approved preschool program under the supervision of an ECET/ECED faculty member. S/U grading; IP grade permissible. 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. Corequisites: ECET 22140; departmental special approval.

*\*Course ineligible to be repeated for GPA recalculation.*

*\*\*Courses offered only at Regional Campuses.*

## Economics (ECON)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Economics (ECON)

### 12060 Personal Finance (3)

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.

### 22060 Principles of Microeconomics (3)

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 score(s). This course may be used to satisfy the Kent Core Requirements.

### 22061 Principles of Macroeconomics (3)

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. This course may be used to satisfy the Kent Core Requirements.

### 32025 Money, Credit and Banking (3)

Organization of our money, credit and banking system; principles and problems of monetary policy. Not open to students who have completed ECON 32030. Prerequisites: ECON 22060 and 22061.

### 32030 International Money, Credit and Banking (3)

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 studied. Not open to students who have completed ECON 32025. Prerequisites: ECON 22060 and 22061.

### 32040 Intermediate Microeconomic Theory and Applications (3)

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. Prerequisites: ECON 22060 and 22061.

### 32041 Intermediate Macroeconomic Theory and Policy (3)

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. Prerequisites: ECON 22060 and 22061.

### 32050 Applied Econometrics (3)

Application of econometric methods such as regression analysis to a variety of economic questions. Prerequisites: MATH 11012 or 12002; and ECON 22060 and 22061 and MIS 24056.

### 32070 Labor Problems (3)

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. Prerequisites: ECON 22060 and 22061.

### 32075 Introduction to International Trade (3)

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.

### 32082 Introduction to Managerial Economics (3)

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 and principal-agent problems, as well as the basic economic models of perfect competition, oligopoly, monopolistic competition and monopoly. Prerequisite: ECON 22060. Cannot be taken by economics majors. Not open to students who have completed ECON 32040.

### 32083 The Economics of Poverty (3)

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. This course may be used to satisfy the domestic diversity requirement.

### 32084 Economics of the Environment (3)

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.

### 32086 Economics of Education (3)

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.

### 42040 Introduction to Econometrics (3)

Application of economic models, probability distributions, estimation, estimators and regression and correlation as tools in economic analysis. Prerequisites: MATH 11012 and ECON 32040 and 32041.

### 42045 Mathematical Economics (3)

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. Prerequisites: ECON 32040 and 32041.

### 42065 Problems of Monetary and Fiscal Policy (3)

Analysis of objectives, techniques and economic effects of monetary and fiscal policies. Prerequisites: ECON 32025 and 32041.

### 42068 Industrial Organization and Public Policy (3)

Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy. Prerequisite: ECON 32040.



**42072 Economics of Labor Markets (3)**

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. Prerequisite: ECON 32040.

**42075 International Economic Relations (3)**

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. Prerequisites: ECON 22060 and 22061.

**42076 Economic Development (3)**

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. Prerequisites: ECON 22060 and 22061.

**42078 Economic History of Technological and Industrial Development (3)**

Historical survey of major economic and technological developments in Western countries from the middle ages to the 20th century. Prerequisites: ECON 22060 and 22061 or special approval of instructor.

**42080 Regional Economics (3)**

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. Prerequisites: ECON 22060 and 22061.

**42081 Urban Economics (3)**

Application of economic principles to urban spatial patterns, economic development and public policy in housing, transportation, pollution, welfare, etc. Prerequisites: ECON 22060 and 22061.

**42083 History of Economic Thought (3)**

Economic thought from Mercantilist Period to early 20th century, especially emphasizing theories of Classical School, Marginalists, Marx and neoclassicists. Prerequisite: 12 credit hours of economics (ECON).

**42085 Public Finance (3)**

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.

**42086 Economics of Health Care (3)**

Overall objective is to use economic analysis to understand and evaluate what has happened and is happening to the health care profession as well as 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.

**42087 Law and Economics (3)**

A study of the economic foundations of the legal system and the impact of legal systems on market behavior. Prerequisites: ECON 22060 and 22061 or special approval of instructor.

**42191 Senior Seminar in Economics (3)**

Advanced investigation of selected topics in economic analysis and issues in economic policy. Prerequisites: ECON 32050 or MATH 40012; and ECON 32040 and 32041. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**42291 Variable Content Seminar in Economics (1-4)**

(Repeated registration permissible when topic varies; repeatable for a total of 12 credit hours) Various special seminars will be announced in the Schedule of Classes under this course number. Prerequisite: special approval.

**42292 Internship in Economics (3)**

Supervised practical experience in economics. Eligibility requirements available from the internship coordinator. Does not count toward economics major. May count as business elective. S/U grading; IP grade permissible. Prerequisites: economics (ECON) major and junior standing and special approval.

**42293 Variable Topic Workshop in Economics (1-6)**

(Repeated registration permissible when topic varies; repeatable for a total of 18 credit hours) Various special workshops will be announced in the Schedule of Classes under this course number. S/U grading. Prerequisite: special approval.

**42295 Special Topics in Economics (3)**

(Repeated registration permissible when topic varies; repeatable for a total of 9 credit hours) Various special topics will be announced in the Schedule of Classes under this course number. Prerequisite: special approval.

**42296 Individual Investigation in Economics (1-3)**

Independent study done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration. IP grade permissible. Prerequisites: senior economics major; special approval.

**42297 Variable Topic Colloquium in Economics (1-3)**

(Repeated registration permissible when topic varies; repeatable for a total of 9 credit hours) Various special colloquia will be announced in the Schedule of Classes under this number. Prerequisite: special approval.

**42298 Research in Economics (1-6)**

Research project done under the supervision of a faculty member. Written approval of supervising faculty member and department chair required prior to registration. IP grade permissible. Prerequisites: senior standing and economics (ECON) major and special approval.

**42299 Senior Project (1-3)**

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. IP grade permissible. Prerequisite: senior standing and economics (ECON) major.

**Educational Administration (EDAD)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Educational Administration (EDAD)

**40093 Variable Title Workshop in EDAD (1-5)**

S/U grading. Prerequisite: none.

**46525 Careers in Higher Education Administration and Student Personnel (3)**

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.

**Education (EDUC)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Education (EDUC)

**49525 Inquiry Professional Practice in Health/Physical Education (3)**

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. Corequisite: EDUC 49526. Prerequisite: CULT 29535.

**49526 Student Teaching in Health and Physical Education (12)**

Full-time student teaching which includes a balanced experience in elementary and secondary health and physical education. Corequisite: EDUC 49525. Prerequisite: CULT 29535 and ITEC 19525.

## Electrical/Electronic and Related Engineering Technologies (EERT)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Electrical/Electronic and Related Engineering Technologies (EERT)

### **Courses offered only at the Regional Campuses.**

#### **12000 Electric Circuits I (4)**

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.

#### **12001 Electric Circuits II (3)**

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.

#### **12005 Electrical/Electronic Drawing (2)**

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.

#### **12010 Introduction to Electronics (4)**

Semiconductor theory. Properties and applications 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.

#### **21010 Engineering and Professional Ethics (3)**

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.

#### **21096 Individual Investigation in Electrical/Engineering Technology (1-4)\***

Independent, in-depth research of an electrical/electronic engineering technology topic supervised and coordinated by an engineering technology faculty member. Prerequisite: special approval.

#### **22000 Electricity/Electronics with Applications (3)**

Basic electronics theory and fundamental concepts of electrical/electronic and digital circuits with applications in the various fields of engineering. Prerequisite: none.

#### **22001 Power Systems (3)**

Practical study of power distribution from generator to user. Prerequisite: sophomore standing.

#### **22002 Industrial Controls (3)**

Introduction to control of AC and DC machinery by electromechanical and solid state devices. Study of circuits, troubleshooting methods and logic systems. Prerequisites: EERT 12010 or 22000 and special approval.

#### **22003 Technical Computing (3)**

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 11009 or 19001.

#### **22004 Digital Systems (4)**

Most 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.

#### **22005 Instrumentation (3)**

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.

#### **22006 Electrical Machines (3)**

Introduction to transformer action, losses and efficiency. Fundamentals of DC and AC motors and generators and three phase systems. Prerequisite: EERT 12001.

#### **22007 Industrial Motor Control and Application (3)**

Application and use of DC, single and polyphase electric motors and industrial control systems. Construction, troubleshooting and operation of starting systems is emphasized. Prerequisite: EERT 22000.

#### **22011 Electronic Systems (2)**

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.

#### **22013 Industrial Electronics (3)**

Solid state devices used in industry, emphasizing thyristors, thyratrons, relaxation oscillators, timing circuits, solid state switches and power supply regulation. Prerequisite: EERT 12010 or 22002.

#### **22014 Microprocessors and Robotics (4)**

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.

#### **22015 Robotics and Advanced Microsystems (3)**

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.

#### **22016 Productivity Software for Industry (1)**

(Repeatable for a maximum of 3 credit hours) 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. S/U grading; IP grade permissible. Prerequisite: none.

#### **22017 Applied Engineering Software (3)**

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.

#### **22018 PC/Network Engineering and Troubleshooting (3)**

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.

#### **22020 Telecommunications Systems I (3)**

Television communications circuits and systems including basic systems, scanning systems, video amplification and processing, color television systems and receivers. Prerequisite: none.

#### **22095 Special Topics (1-3)\***

(Repeated registration permissible) Special topics in electrical/electronic engineering technology. Prerequisite: special approval.

#### **23000 Sensors (2)**

A study of sensors, transducers, relays, solenoids, servomotors, actuators, lasers, LEDs, photonic and temperature sensors and electronic devices in electromechanical control. Prerequisite: sophomore.

*\*Course ineligible to be repeated for GPA recalculation.*



## Engineering of Information Technology (EIRT)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Engineering of Information Technology (EIRT)

### **Courses offered only at Regional Campuses.**

**22030 Survey of Information Technology (3)**  
An introductory course in modern methods and techniques used for information acquisition, processing, storage, conversion, transmission and display. Prerequisite: none.

### **22032 PC Network Engineering II (3)**

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.

### **22033 Fiber Optics Technology (2)**

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 two hours lab. Prerequisites: MATH 19002 and EERT 12001.

## English (ENG)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > English (ENG)

For placement in College English courses see Arts and Sciences—English Composition Requirement—Placement.

*Students who earn A (4.0) or B (3.0) in ENG 11011 are allowed to take lower-division (20000-level) English courses while also taking ENG 21011. Any undergraduate English course may be taken after ENG 21011 has been completed satisfactorily with the exception of 40000-level courses, which require junior standing.*

### **10101 College English I for Foreign Students (3)**

Basic expository essay for non-native 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.

### **10201 Elementary ESL Writing II (3)**

Writing proficiency in English established through enhancing knowledge of paragraph structure and development. Prerequisite: special approval.

### **10202 Intermediate ESL Writing I (3)**

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.

### **10203 Intermediate ESL Writing II (3)**

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.

### **10204 Advanced ESL Writing I (3)**

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.

### **10205 Advanced ESL Writing II (3)**

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.

### **10211 Elementary ESL Speaking and Vocabulary II (4)**

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.

### **10212 Intermediate ESL Speaking and Vocabulary I (4)**

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: appropriate placement test score or ENG 10211 with minimum C (2.0) grade.

### **10213 Intermediate ESL Speaking and Vocabulary II (4)**

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.

### **10214 Advanced ESL Speaking and Vocabulary I (3)**

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.

### **10215 Advanced ESL Speaking and Vocabulary II (3)**

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.

### **10216 Advanced ESL Speaking and Vocabulary III (2)**

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.

### **10221 Elementary ESL Reading II (3)**

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.

### **10222 Intermediate ESL Reading I (3)**

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.

### **10223 Intermediate ESL Reading II (3)**

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.

### **10224 Advanced ESL Reading I (3)**

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: special approval.

### **10225 Advanced ESL Reading II (3)**

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.

### **10231 Elementary ESL Listening II (1)**

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: special approval.

**10232 Intermediate ESL Listening I (1)**

Practice in listening strategies for intermediate-level students. Practice, apply and relate listening skills to life at an American university. Prerequisite: grade of C (2.0) or better in ENG 10231 and special approval.

**10233 Intermediate ESL Listening II (3)**

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: grade of C (2.0) or better in ENG 10232 and special approval.

**10234 Advanced ESL Listening I (2)**

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: grade of C (2.0) or better in ENG 10233 and special approval.

**10235 Advanced ESL Listening II (2)**

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, notetaking skills and university lectures. Prerequisite: grade of C (2.0) or better in ENG 10234 and special approval.

**10241 Elementary ESL Grammar II (3)**

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.

**10242 Intermediate ESL Grammar I (3)**

A low- to 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.

**10243 Intermediate ESL Grammar II (3)**

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.

**10244 Advanced ESL Grammar I (3)**

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.

**10245 Advanced ESL Grammar II (3)**

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.

**10250 ESL Pronunciation (1)**

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.

**10261 ESL: Introduction to American Literature I (3)**

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.

**10262 ESL: Introduction to American Literature II (3)**

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.

**10263 ESL: Introduction to Children's Literature (3)**

An introductory survey of classic and contemporary children's literature, pre-K through 7. Provides an analysis of various genres. Includes a crosscultural 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.

**10264 ESL: Introduction to Adolescent Literature (3)**

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.

**10266 ESL: Introduction to the Culture of North America (3)**

A content-based course which examines core American values and beliefs. Introduces topics such as family, education, religion, government, violence and diversity. Prerequisite: special approval.

**10267 ESL: American Institutions (3)**

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.

**10268 ESL: Images and Icons in TV, Film and Technology (3)**

Explores values and traditions of American culture as revealed in TV programs, films and 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.

**10274 ESL: Language Skills for TOEFL I (3)**

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.

**10275 ESL: Language Skills for TOEFL II (3)**

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.

**10284 ESL Technical Writing (3)**

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.

**10285 ESL Business English (3)**

Instruction in principles of effective business communication and practical application of those principles in writing letters, memos, e-mail and reports. Prerequisite: special approval.

**10290 ESL University Orientation (1)**

Assist ESL students in making the transition to the university, familiarizing students with campus life, refining language and study skills, exploration of relevancy of such skills in various majors. S/U grading. Prerequisite: special approval.

**10295 Special Topics in ESL (3)\***

Special topics in content-based teaching of English as a second language. Prerequisite: special approval.

### **11001 Introduction to College Writing—Stretch (3)**

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 score 1-16; or SAT score 200-600; or Compass writing score of 0-52.

### **11002 College Writing I—Stretch (3)**

Continues the instruction and practice necessary to write for college, with emphasis on reading, thinking, writing and technological skills necessary for writing college-level texts. Prerequisite: grade of C (2.0) or better in ENG 11001. Completion of this course is the same as ENG 11011. This course may be used to satisfy the Liberal Education Requirements (LER).

### **11011 College Writing I (3)**

The study and practice of academic writing, including an introduction to rhetorical principles, the writing process, critical reading, research and technology. Prerequisite: ACT score 17-25; or SAT score 430-590; or Compass writing score 53-94. This course may be used to satisfy the Kent Core Requirements.

### **20002 Introduction to Technical Writing (3)**

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.

### **20021 Introduction to Creative Writing (3)**

Practice in various forms of creative writing with some emphasis on student interests and on sources of creativity. Prerequisite: Minimum grade of C- (1.7) in ENG 11011 or 11002 or 21011 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.

### **21001 Introduction to Ethnic Literature of the United States (3)**

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. This course may be used to satisfy the diversity requirement.

### **21002 Introduction to Women's Literature (3)**

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. This course may be used to satisfy the diversity requirement.

### **21003 Introduction to LGBT Literature (3)**

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 21011 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher. This course may be used to satisfy the diversity requirement.

### **21011 College Writing II (3)**

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 11002 or HONR 10197; or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher. This course may be used to satisfy the Kent Core Requirements.

### **21054 Introduction to Shakespeare (3)**

Study of representative plays and poems in the context of Shakespeare's age, his language and his cultural influence. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

### **22071 Great Books I (3)**

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. This course may be used to satisfy the Kent Core Requirements.

### **22072 Great Books II (3)**

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. This course may be used to satisfy the Kent Core Requirements.

### **22073 Major Modern Writers: British and United States (3)**

Introduction to British and United States writers of the 20th century; study of their works in their literary and cultural contexts. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

### **25001 Literature in English I (3)**

British literature or combination of British and U.S. 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. Prerequisite: Minimum grade of C- (1.7) in ENG 11011 or 11002 or 21011 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.

### **25002 Literature in English II (3)**

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: Minimum grade of C- (1.7) in ENG 11011 or 11002 or 21011 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.

### **25004 Literature in the United States I (3)**

U.S. literature from the colonial period until 1865 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.

### **25005 Literature in the United States II (3)**

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.

### **26001 Popular Forms of Literature (3)**

Introduction to popular forms of literature such as the Western, the detective story, science fiction, fantasy, the war story and others. Prerequisite: Minimum grade of C- (1.7) in ENG 11011 or 11002 or 21011 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.

### **26095 Sophomore Special Topics (3)\***

In-depth study of a particular writer, theme or literary movement, such as literature and film, gothic novels. Prerequisite: Minimum grade of C- (1.7) in ENG 11011 or 11002 or 21011 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.

### **30001 English Studies (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### **30062 Principles of Technical Writing (3)**

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. Prerequisites: ENG 21011 or HONR 10297 and junior standing.

**30063 Business and Professional Writing (3)**

Analysis of how textual genre function in business and professional settings. Students gain extensive individual and collaborative practice writing in these genres. Prerequisites: ENG 21011 or HONR 10297 with minimum C (2.0) grade and junior standing.

**30064 Argumentative Prose Writing (3)**

Practice in writing argumentative essays, with emphasis on discussion of student work. Prerequisite: ENG 21011 or HONR 10297.

**30065 Expository Prose Writing (3)**

Practice in prose composition with emphasis on exposition and discussion of student work. Prerequisite: ENG 21011 or HONR 10297

**30066 Writing in the Public Domain (3)**

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: minimum grade of C- (1.7) in ENG 10002 or ENG 21011 or HONR 10297.

**30067 Fiction Writing I (3)**

Instruction and practice in writing fiction with specific models and discussions of student work on a weekly basis. Prerequisite: ENG 20021.

**30068 Fiction Writing II (3)**

Continued instruction and practice in writing of fiction with specific models and discussion of student work on a weekly basis. Prerequisite: ENG 30067.

**30069 Poetry Writing I (3)**

Instruction in and practice of writing poetry with specific models and discussion of student work on a weekly basis. Prerequisite: ENG 20021.

**30070 Poetry Writing II (3)**

Continued practice in writing of poetry with specific models and discussion of student work on a weekly basis. Prerequisite: ENG 30069.

**30095 Junior Special Topics (3)**

An opportunity to focus on important issues in literature, writing, criticism or cultural studies. Prerequisite: junior standing.

**31001 Fundamental English Grammar (3)**

Study of grammatical structures and matters of usage and style in edited U.S. English. Prerequisite: none.

**31002 History of the English Language (3)**

Study of the development of the English language from the Indo-European period to the present. Prerequisite: none.

**31003 Linguistics (3)**

Survey of language study including linguistic tools of analysis such as phonetics, morphology and syntax, and selected topics in applied linguistics. Prerequisite: none.

**31004 Lexicology/Lexicography (3)**

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

**31005 Child Second Language Acquisition (3)**

Explores theory, research and teaching/learning applications of second language acquisition in children. Prerequisite: none.

**31006 World Englishes (3)**

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.

**31007 TESL Pedagogy I (3)**

Theoretical bases, approaches, techniques of second language pedagogy at the elementary and secondary levels. Inquiry into ESL methods, materials and lesson-planning. Prerequisite: none.

**31008 Grammar for Teaching English as a Second Language/Teaching English as a Foreign Language (3)**

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.

**31095 Special Topics in Linguistics (3)**

Study of specific topics in linguistics such as sociolinguistics, phonetics and phonology or bi- and multilingualism. Prerequisite: ENG 21011 or HONR 10297.

**32001 Children's Literature (3)**

Survey of children's literature from Mother Goose rhymes and picture books through modern realistic fiction. Prerequisite: Minimum grade of C- (1.7) in ENG 11011 or 11002 or 21011 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.

**32002 Literature for Young Adults (3)**

Study of literature appropriate to young adults. Prerequisite: Minimum grade of C- (1.7) in ENG 11011 or 11002 or 21011 or HONR 10197 or ACT combined English/Writing score of 26 or higher or SAT Writing score of 600 or higher.

**33001 U.S. Literature to 1865 (3)**

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.

**33002 U.S. Literature from 1865 to 1945 (3)**

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. Prerequisites: ENG 21011 or HONR 10297.

**33003 U.S. Literature from 1945 to Present (3)**

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. Prerequisites: ENG 21011 or HONR 10297.

**33010 African-American Literature to 1900 (3)**

(Cross-listed with PAS 32001) Study of African-American literature from its beginning to 1900, including such writers as Wheatley, J. Hammon, Terry, B. Hammon, Jones, Marrant, Allen, Hall, Delany, Harper, Stewart, Turner, Jacobs, Keckley, Brown, Wilson, Griggs, Chesnutt and Dunbar. Prerequisite: ENG 21011 or HONR 10297.

**33011 African-American Literature (3)**

Studies in African-American literature, including such writers as Wheatley, Hammon, Douglass, Jacobs, L. Hughes, Toomer, Cullen, Hurston, Wright, Baldwin, Ellison, Baraka, Walker, Morrison, Brooks and Angelou. Prerequisites: ENG 30001; and 25001 or 25002. This course may be used to satisfy the diversity requirement.

**33012 Modern African-American Literature (3)**

(Cross-listed with PAS 32002) 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.

**33013 Pan-African Women's Literature (3)**

(Cross-listed with PAS 37100) Introduces students to literary works by African and Caribbean women. Prerequisite: ENG 11011 or HONR 10197.

**33014 African-American Women's Literature (3)**

(Cross-listed with PAS 37200) Introduces student to literary works by African-American women. Prerequisite: ENG 11011 or HONR 10197.

**33015 African Literatures (3)**

(Cross-listed with PAS 32050) 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.

**34001 Medieval English Literature (3)**

British 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.

**34002 British Literature, 1500-1660 (3)**

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.

**34003 British Literature, 1660-1800 (3)**

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.

**34004 British Literature, 1800-1900 (3)**

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.

**34005 British and Irish Literature, 1900-Present (3)**

British and Irish literary themes, genres and authors studied in their historical and cultural contexts. Selections from modern and postmodern literature. Prerequisite: ENG 21011 or HONR 10297.

**34011 World Literature in English (3)**

An examination of selected writings in English by postcolonial authors from Africa, Asia, the Caribbean and other parts of the world. Prerequisites: ENG 21011 or HONR 10297. This course may be used to satisfy the diversity requirement.

**34021 Women's Literature (3)**

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. This course may be used to satisfy the diversity requirement.

**34031 Short Story (3)**

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.

**34055 Shakespeare (3)**

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. Prerequisites: ENG 30001; and 25001 or 25002.

**34065 Chaucer (3)**

Close study of Chaucer's Canterbury Tales, with some attention to courtly poems and/or selected lyrics. Prerequisite: ENG 21011 or HONR 10297.

**34095 Special Topics: Major Author Studies (3)**

(Repeated registration permissible when topic varies) Intensive study of one or more authors from the English-speaking world. Prerequisite: ENG 21011 or HONR 10297.

**35101 Literature and Other Disciplines (3)**

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.

**35201 The Bible As Literature (3)**

Study of the 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.

**35301 LGBT: Critical Perspectives (3)**

Study of theory, language and other aspects of lesbian, gay, bisexual and transgendered literature and culture. Prerequisite: ENG 21011 or HONR 10297. This course may be used to satisfy the diversity requirement.

**36001 Literary Criticism (3)**

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.

**37001 Classical Rhetoric (3)**

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. Prerequisites: ENG 30001; and 25001 or 25002.

**37101 Critical Rhetorical Studies of Texts in Context (3)**

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. Prerequisites: ENG 30001; and 25001 or 25002.

**37201 Writing in Communities (3)**

Examines writing practices in the workplace, family and local communities. Students read/write literary narrativism, read scholarship on community literacies and study/participate in specific writing communities. Prerequisite: ENG 30001; and ENG 25001 or 25002.

**39095 Special Topics in Literary History (3)**

(Repeated registration permissible when topic varies) Study of selected literary histories such as the travel narrative, the fairy tale, the detective story, and postcolonial literature. Prerequisite: ENG 21011 or HONR 10297.

**39195 Special Topics in Drama (3)**

(Repeated registration permissible when topic varies) Study of selected topics, themes, or periods such as Gender Construction, Obsession, or Medieval Drama. Prerequisite: junior standing.

**39295 Special Topics in Poetry (3)**

(Repeated registration permissible when topic varies) Study of selected topics in poetry such as poetic form, historical and cultural contexts, and artistic movements. Prerequisite: ENG 21011 or HONR 10297.

**39395 Special Topics in Fiction (3)**

(Repeated registration permissible when topic varies) Study of selected topics in fiction such as the autobiographical novel, the novella and the short story. Prerequisite: ENG 21011 or HONR 10297.

**39495 Special Topics in Comparative Literature (3)**

(Repeated registration permissible when topic varies) Study of selected topics in comparative literature such as movements and genres in world literature, the interrelationships of the arts. Prerequisites: ENG 30001 and 25001 or 25002.

**39595 Special Topics in Literary Criticism (3)**

(Repeated registration permissible when topic varies) Study of selected topics in literary criticism such as reader response criticism, psychoanalytic methodologies or Marxist approaches. Prerequisites: ENG 30001 and ENG 25001 or 25002.

**39695 Special Topics in Ethnic Literature of the United States (3)**

(Repeated registration permissible when topic varies) Study of selected topics in ethnic literature such as the literature of one ethnic group, race and ethnicity in U.S. culture. Prerequisites: ENG 30001 and 25001 or 25002.

**39795 Special Topics in Women's Literature (3)**

(Repeated registration permissible when topic varies) Study of selected topics in women's literature organized around literary, historical and theoretical issues. Prerequisites: ENG 30001 and 25001 or 25002.



**39895 Special Topics in Rhetoric, Composition and Writing (3)**

(Repeated registration permissible when topic varies) Study of selected topics in rhetoric, composition and writing such as historical and contemporary studies of political and professional discourse. Prerequisite: ENG 21011 or HONR 10297.

**39995 Special Topics Cultural Studies (3)**

(Repeated registration permissible when topic varies) Study of selected topics in cultural studies organized around a particular mode or methodology of cultural analysis. Prerequisite: ENG 21011 or HONR 10297.

**40010 Writing Portfolio (2)**

Directed practice in constructing a portfolio of original writing, which may be creative, expository, technical or preprofessional in nature. Restricted to students in the writing minor. IP grade permissible. Prerequisites: junior standing and special approval.

**41001 Sociolinguistics in Schooling (3)**

Examines the interactions between society and language. Explores pedagogical implications of language variation. Prerequisite: ENG 21011 or HONR 10297. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41002 Computers in L2 Teaching (3)**

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.

**41008 TESL Pedagogy II (3)**

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. Corequisite: ENG 41009.

**41009 Student Teaching (9)**

Supervised practicum in the teaching of ESL, grades P-12. Prerequisite: admission to student teaching. Corequisite: ENG 41525.

**41092 ESL/EFL Practicum I (3)**

This course provides students practical teaching opportunities in teaching English as a second/foreign language. Prerequisite: none.

**41093 Variable Title Workshop in English (1-6)**

An opportunity to focus on concerns of the discipline and on new developments in writing, criticism, literature and career opportunities. S/U grading. Prerequisite: junior standing.

**41096 Individual Investigation (1-3)**

Open to advanced undergraduate students in English. Only 3 credit hours of individual investigation count toward the English major. Prerequisites: special approval of instructor and department and junior standing.

**41192 ESL/EFL Practicum II (3)**

This course provides students seeking educational licensure opportunities in teaching English as a second/foreign language. Prerequisite: none

**41292 Teaching English as a Foreign Language Practicum (3 or 6)**

(Repeatable for a total of 6 credit hours) 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. Prerequisites: none.

**41525 Inquiry into Professional Practice (3)**

Preparation for student teaching of ESL, grades K-12. Prerequisite: admission to student teaching. Corequisite: ENG 41009.

**46201 Nineteenth-Century European Literature (3)**

Major European writers of the 19th century; romanticism, realism, naturalism, symbolism and related movements. Prerequisite: junior standing.

**46203 Twentieth-Century European Literature (3)**

Major European writers of the 20th century; modernism, postmodernism and related movements. Prerequisite: junior standing.

**49091 Senior Seminar (3)**

Intensive study of a special topic in English studies. Students will complete a long writing project during the semester. Enrollment limited to English majors. Prerequisites: ENG 30001; and 25001 or 25002. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**49095 Senior Special Topics (3)**

Intensive study of topics that will vary each semester. Prerequisites: ENG 30001; and 25001 or 25002.

*\*Course ineligible to be repeated for GPA recalculation.*

**Entrepreneurship (ENTR)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Entrepreneurship \(ENTR\)](#)

**27056 Introduction to Entrepreneurship (3)**

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 a viable business. Prerequisite: none.

**27065 Entrepreneurial Experience I (3)**

First of a 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.

**27075 Entrepreneurial Experience II (2)**

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 27065.

**27466 Speaker Series in Entrepreneurship (1)**

Explores entrepreneurship based upon the experiences of a broad range of entrepreneurs. During the semester, at least six entrepreneurs will share their paths in establishing a successful enterprise, including some of the obstacles and missteps they made along the way. Corequisite: ENTR 27056.

**37045 Sales in the Entrepreneurial Venture (3)**

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: MKTG 25010 and ENTR 27075 and entrepreneurship (ENTR) major.

**37065 Entrepreneurial Finance (3)**

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 flow and grow appropriately in a capital-constrained environment. Prerequisites: FIN 36053 and entrepreneurship (ENTR) major.

**37075 Entrepreneurial Marketing (3)**

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: MKTG 25010 and ENTR 27075 and entrepreneurship (ENTR) major.

**37192 Practicum in Entrepreneurship (1-3)**

(Repeatable up to 3 credit hours). Supervised work in an entrepreneurially-oriented organization to obtain experience in operating a small or entrepreneurial firm. Prerequisites: ENTR 27075.

**37195 Special Topics in Entrepreneurship I (3)**

Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered. Prerequisite: ENTR 27056.

**47065 New Venture Creation (3)**

The process of formulating, planning and implementing a new venture. Students apply the skills learned in the functional areas toward the goal of starting a business. Exposure to detailed description of "how to" embark on a new venture in a logical manner. Prerequisites: ENTR 37065 and 37075 and entrepreneurship (ENTR) major. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**47091 Seminar in Entrepreneurship (3)**

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.

**47195 Special Topics in Entrepreneurship II (3)**

Special topics course offered on an irregular basis; different topics and faculty involved each time the course is offered. Prerequisite: ENTR 27056.

**47292 Entrepreneurial Internship (1-3)**

(Repeatable up to 3 credit hours). Preparation of research report concurrent with on-the-job experience with cooperating business or other organization. Prerequisites: ACCT 23021 and ENTR 27075 and MKTG 25010; and entrepreneurship (ENTR) major.

**Environmental Technology (ENVT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Environmental Technology

**Offered only at Regional Campuses**

**10001 Introduction to Environmental Technology (3)**

Survey course in environmental technology, including health and safety, history, environmental compliance and related issues. Prerequisite: none.

**10004 Toxicology (3)**

Examination of the terminology and classification of poisons that affect humans. Includes poison sources, modes of exposure, health effects and control measures. Prerequisite: none.

**10010 Environmental Hazards Identification and Control (4)**

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: ENVT 10004.

**20001 Environmental Law (3)**

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.

**20004 Safety and Injury Control (3)**

Examination of hazards assessment including organizational, environmental and disaster planning; health and safety inspection and reporting criteria; and first aid procedures. Prerequisite: ENVT 10001.

**20006 Fire Prevention and Control (3)**

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: ENVT 10001.

**20008 Environmental Safety Administration (3)**

Organization and operation of environmental safety unit; relationships with business, governmental and community entities involved in environmental safety and hazards control. Prerequisite: ENVT 10010.

**Educational Psychology (EPSY)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Educational Psychology (EPSY)

**29525 Educational Psychology (3)**

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. Pre/corequisite: minimum grade of C (2.0) in CULT 29535; and 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) major.

**49525 Relational Learning in Education (3)**

(Repeatable for a maximum of 9 credit hours) Seminar focuses on national and international relational learning approaches to education. Current literature on relational learning is critiqued. Professional identity is supported through engaged learning opportunities in peer mentoring experiences and faculty-led research. Prerequisite: special approval.

**Experimental Programs Division (EXPR)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Experimental Programs Division (EXPR) [Honors College](#)

**10295 Selected Topics In (1-3)\***

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.

**20295 Selected Topics In (1-3)\***

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.

**30000 May 4, 1970 and Its Aftermath (3)**

Study of the events of May 4, 1970, at Kent State University and their aftermath from various disciplinary perspectives. Prerequisite: none.

**30295 Selected Topics in (1-3)**

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.

**40295 Selected Topics in (1-3)**

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.

*\*Course ineligible to be repeated for GPA recalculation.*

**Exercise Science (EXSC)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Exercise Science \(EXSC\)](#)

**15010 Introduction to Exercise Science (2)**

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.

**25057 Human Anatomy Physiology I (3)**

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.

**25058 Human Anatomy Physiology II (3)**

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.

**35022 Exercise Leadership (3)**

Designed to provide the students with a 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. Prerequisites: none.

**35054 Biomechanics (3)**

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 25058; and ATTR 25058 or EXSC 25058.

**35075 Exercise Programming (3)**

Problems and issues in developing exercise programs in institutional and commercial settings. Prerequisites: ATTR 25057 or EXSC 25057; and ATTR 25057 or EXSC 25057.

**40612 Exercise Leadership for the Older Adult (3)**

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.

**43093 Variable Title Workshop in Exercise Science and Exercise Physiology (1-3)**

(Repeatable for a maximum of 6 credit hours) Workshop in exercise science or physiology, topics vary. S/U graded. Prerequisite: none.

**43098 Research in Exercise Science (1-3)**

(Repeatable for a maximum of 12 credit hours) Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and School Director required prior to registration. S/U graded. IP permissible. Prerequisite: special approval

**45065 Exercise Testing (3)**

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.

**45070 Electrocardiography for the Exercise Physiologist (3)**

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. Prerequisites: ATTR 25057 or EXSC 25057; and ATTR 25058 or EXSC 25058.

**45080 Physiology of Exercise (3)**

Response of the human to acute and chronic exercise with emphasis on the underlying physiological mechanisms. Prerequisites: ATTR 25057 or EXSC 25057; and ATTR 25058 or EXSC 25058.

**45096 Individual Investigation in Exercise Science (1-3)**

(Repeatable for a maximum of 6 credit hours) 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.

**45480 Internship Seminar in Exercise Science (1)**

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 exercise specialist is discussed in detail. Prerequisite: special approval.

**45481 Senior Seminar in Exercise Science (1)**

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.

**45492 Internship in Physical Fitness/Cardiac Rehabilitation (2-8)**

(Repeatable for a total of 8 hours) Supervised experience providing practical experience in administration and operation of programs in physical fitness, health enhancement and/or cardiac rehabilitation. S/U grading; IP grade permissible. Sixty clock hours per credit hour. Prerequisites: special approval.

**46095 Special Topics in Exercise Science (1-3)**

(Repeatable) Selected topics in exercise science dependent upon interest. Prerequisite: none.

**Fashion Design and Merchandising (FDM)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Fashion Design and Merchandising \(FDM\)](#)

**10010 Fashion Fundamentals (3)**

Introduction to the global fashion industry. Analysis of the business of fashion and 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 (PFDM) major. Special fee: \$15 flat fee—subject to change.

**10020 Fashion Visuals (2)**

The study of color and two- and three-dimensional design as it applies to the fashion industry. Prerequisite: fashion design (FD) major. Special fee: \$13.32 flat fee—subject to change.

**10030 Fashion Fabrics I (3)**

The study of fabrics, focusing on differentiating between fibers, fabric construction and fabric names. Students study fabric properties and how they relate to fabric and usage. Prerequisite: fashion design (FD) or fashion merchandising (FM) major. Special fee: \$35 flat fee—subject to change.

**10140 Foundations of Fashion Drawing (3)**

Introduction to fashion drawing. Concentration on communicating through drawing the fashion figures and technical flats, accurate garment proportion and construction. Prerequisite: fashion design (FD) major. Special fee: \$28.50—subject to change.

**15043 Workroom Techniques I (2)**

Introduction to basic construction skills using apparel workroom methods and industrial sewing equipment. Prerequisite: fashion design (FD) major. Special fee: \$25 flat fee—subject to change.

**15044 Workroom Techniques II (2)**

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. Special fee: \$25 flat fee—subject to change.

**20013 History of Costume (3)**

Chronological study and research of historic costume from the origin of clothing through the French revolutionary era and 19th- and 20th-century designers, and the influence on contemporary fashion. Prerequisites: ARTH 22006 or ARTH 22007 or HIST 11050 or HIST 11051.

**20020 Fashion Merchandising Presentations (3)**

Study of fashion information, research sources and visual presentation formats used in the fashion industry. Prerequisite: minimum grade of C (2.0) in FDM 10030; and fashion merchandising (FM) major. Special fee: \$15 flat fee—subject to change.

**20030 Fashion Apparel Analysis (3)**

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.

**20040 Fashion Fabrics II (3)**

Continued study of fabrics, focusing on analyzing fabrics in detail. Also included is 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. Special fee: \$35 flat fee—subject to change.

**20121 Fashion Drawing I (3)**

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. Prerequisites: minimum grade of C (2.0) FDM 10020 and 10140. Corequisite: FDM 20141. Special fee: \$19 flat fee—subject to change.

**20122 Fashion Drawing II (3)**

Continued study of fashion illustration techniques through the use of Croquis books and figure layouts. Introduction to different design markets and research and on how illustration reflects different markets. Instruction on stylizing according to market. Prerequisites: minimum grade of C (2.0) FDM 20121. Corequisite: FDM 20142. Special fee: \$19 flat fee—subject to change.

**20131 Technical Fashion Drawing I (3)**

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. Prerequisites: minimum grade of C (2.0) in FDM 10020 and 10140. Corequisite: FDM 20141. Special fee: \$19 flat fee—subject to change.

**20132 Technical Fashion Drawing II (3)**

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. Prerequisites: minimum grade of C (2.0) in FDM 20131. Corequisite: FDM 20142. Special fee: \$30 flat fee—subject to change.

**20141 Flat Pattern/Draping I (3)**

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. Prerequisites: minimum grade of C (2.0) in FDM 10030 and 15044. Pre- or corequisite: minimum grade of C (2.0) in MATH 11009 or 11010 or 11012. Corequisite: FDM 20121 or 20131. Special fee: \$75 flat fee—subject to change.

**20142 Flat Pattern/Draping II (3)**

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. Special fee: \$75 flat fee—subject to change.

**20263 Fashion Retail Industry (3)**

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.

**25011 Fashion Branding (3)**

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 individually and as part of a group. Prerequisites: FDM 10010 with a minimum grade of C (2.0); and fashion merchandising (FM) major.

**30013 Fashion and Pop Culture (3)**

An examination of the relationship between different types of design and popular culture in America and Europe in the 20th and 21st centuries. Prerequisites: ARTH 22006 or ARTH 22007 or HIST 11050 or HIST 11051.

**30083 Professional Seminar (3)**

Professional development strategies for fashion and related careers. Emphasis is on verbal and written communication skills. Prerequisites: minimum grade of C (2.0) in FDM 20020 or 20142; and junior or senior standing. Special fee: \$20 flat fee—subject to change. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**30121 Fashion Design I (3)**

Study of the fashion industry, seasons and markets. Research and theoretical development of a fashionline/collection. Continued development of drawing, rendering and technical drawing skills. Prerequisites: minimum grade of C (2.0) in FDM 20122. Corequisite: FDM 30141. Special fee: \$20 flat fee—subject to change.

**30122 Fashion Design II (3)**

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. Special fee: \$10 flat fee—subject to change.

**30123 CAD for Fashion Applications (3)**

The use of CAD to produce technical drawings, sketches, color stories and textile prints for design and merchandising presentations. Prerequisite: fashion design (FD) or fashion merchandising (FM) major and junior standing. Special fee: \$50 flat fee—subject to change.

**30124 Apparel Manufacturing Processes (3)**

Students learn seam/stitch classifications, costing, sourcing, lab testing and quality assurance. Assembly-line and modular manufacturing are discussed. Prerequisites: minimum grade of C (2.0) in FDM 20040 and 20132 and 20142.

**30131 Technical Fashion Design I (3)**

Introduction to computerized product data management systems. Creating technical packets with detailed drawings and assembly instructions. Measuring garment prototypes for quality assessment. Prerequisites: minimum grade of C (2.0) in FDM 20132 and 20142.

**30132 Apparel Construction for Specialty Markets (1)**

Construction details specific to a market are researched, discussed and duplicated. Only one specialty market is covered each class. Markets vary by class. Prerequisite: minimum grade of C (2.0) in FDM 20142.

**30141 Fashion Studio I (3)**

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. Special fee: \$36 flat fee—subject to change.

**30142 Fashion Studio II (3)**

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. Special fee: \$36 flat fee—subject to change.

**30151 Advanced Patternmaking for Technical Design (2)**

Flat-pattern assignments for advanced, complex garments. Suits, outerwear and cut/sew knits are covered. Students make patterns by traditional methods as well as by computer. Prerequisite: minimum grade of C (2.0) in FDM 20142. Special fee: \$60 flat fee—subject to change.

**30152 Apparel Prototype Production and Analysis (3)**

Production of sample garments for a variety of apparel markets focusing on analysis of fit. Menswear, childrens 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. Special fee: \$60 flat fee—subject to change.

**30153 Machine Knitting (2)**

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. Special fee: \$20 flat fee—subject to change.

**30213 Fashion Marketing (3)**

Examination of fashion producers/retailers' roles in marketing communications. Analysis of consumer motivation to develop sales strategies in relationship to marketing strategies. Prerequisites: MKTG 25010; and minimum grade of C (2.0) in FDM 20020.

**30260 Product Development in the Fashion Industry (3)**

Researching, planning, developing and presenting a fashion product line for an identified target market with regard to prices, styling and timing. Prerequisites: minimum grade of C (2.0) in FDM 20030 and fashion merchandising (FM) major.

**30262 Fashion Merchandise Planning and Buying (3)**

Study of market sources, fashion buying techniques, assortment planning and allocation, and quantitative calculations needed in the fashion industry. Prerequisites: minimum grade of C (2.0) in FDM 20263; and MATH 11009 or 11010 or 11012.

**35013 Fashion Accessories (3)**

The merchandising, promotion and sales of accessories. Materials, production and resources are examined by category. Prerequisites: none.

**35063 Visual Merchandising and Display (3)**

Theory and practice of merchandise presentation for the purpose of promotion and sales. Prerequisites: fashion merchandising (FM) major.

**35260 Merchandising for Home Furnishings (3)**

Introduction to the various retail classifications of home furnishing merchandise to include furniture, floor coverings, window treatments, household linens, table tops, housewares and decorative accessories. Prerequisite: none.

**35270 Computer Applications in Retailing (3)**

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. Prerequisites: minimum grade of C (2.0) in FDM 20263; and MATH 11009 or 11010 or 11012. Special fee: \$15 flat fee—subject to change.

**35280 Fashion Entrepreneurship (3)**

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.

**35900 Florence Fashion Study Orientation (1)**

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. S/U grading. Prerequisites: 2.50 cumulative GPA. Corequisite: FDM 20030 or 20142.

**35901 Italian Fashion and Culture (3)**

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 worldwide. Prerequisite: minimum grade of C (2.0) in FDM 35900.

**35902 European Fashion Marketing (3)**

Building on the information acquired in the European Fashion Marketing Seminar lectures and visits, students complete a series of assignments designed to simulate the type of work that a merchandising professional may be asked to complete. Corequisite: FDM 35903

**35903 European Fashion Marketing Sminar (3)**

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.

**35904 European Fashion Design (3)**

Taken concurrently with European Fashion Design Seminar and is designed to introduces techniques and enhance techniques of those who possess a basic to advanced knowledge of sewing. Only taught in European settings. Corequisite: FDM 35905.

**35905 European Fashion Design Seminar (3)**

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.

**40121 Fashion Portfolio I (3)**

Develop a professional design portfolio which will emphasize in-depth individual investigation of specific apparel markets, target customers and various illustrative techniques. Prerequisites: minimum grade of C (2.0) in FDM 30122. Corequisite: FDM 40141. Special fee: \$10 flat fee—subject to change.



**40122 Fashion Portfolio II (3)**

Develop a professional fashion design portfolio geared to fall/winter. Portfolio will emphasize apparel line-building as well as illustration techniques. Prerequisite: minimum grade of C (2.0) in FDM 40121. Corequisite: FDM 40142. Special fee: \$10 flat fee—subject to change.

**40131 Technical Fashion Design II (3)**

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.

**40132 Technical Fashion Design III (3)**

Develop a portfolio that emphasizes investigation of specific apparel markets through finishes and fabrications. Portfolios will reflect concentrated classifications and include technical packs and computerized flat drawings. Prerequisite: minimum grade of C (2.0) in FDM 40131. Corequisite: FDM 40152.

**40141 Fashion Studio III (3)**

Development of patternwork, specification sheets and muslins for original line. Faculty critiques. Prerequisites: minimum grade of C (2.0) in FDM 30142. Corequisite: FDM 40121. Special fee: \$55 flat fee—subject to change.

**40142 Fashion Studio IV (3)**

Construction and completion of garments for original line. Faculty critiques. Prerequisite: minimum grade of C (2.0) in FDM 40141. Corequisite: FDM 40122. Special fee: \$55 flat fee—subject to change.

**40151 Technical Design Studio I (3)**

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. Prerequisites: minimum grade of C (2.0) in FDM 30124 and 30131 and 30132 and 30151 and 30152. Corequisite: FDM 40131. Special fee: \$55 flat fee—subject to change.

**40152 Technical Design Studio II (2)**

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. Special fee: \$55 flat fee—subject to change.

**40261 Fashion Buying (3)**

A study of market sources, fashion buying techniques, vendor relationships, practices and approaches as a function of assortment planning and vendor selection. Prerequisite: FDM 10030 and 30272.

**40291 Seminar in Fashion Merchandising (3)**

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 grade of C (2.0) in FDM 30213 and 30260 and 30262.

**45011 Fashion Forecasting (3)**

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.

**45012 Textiles and Apparel in the Global Economy (3)**

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.

**45035 Historic Textiles (3)**

Identification and analysis of textile fabrics as the reflection of culture. Pre/corequisite: HIST 11050 or 11051 or ARTH 22006 or 22007. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**45092 Internship in Fashion Design and Merchandising (3)**

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 junior standing and special approval.

**45093 Variable Title Workshop—FDM (1-3)**

(Repeatable for a total of 6 credit hours) S/U grading. Prerequisite: special approval. Special fee: actual cost basis.

**45095 Special Topics (1-3)**

Variable content relevant to the field of fashion. Prerequisite: special approval.

**45096 Individual Investigation (1-3)**

Individual investigation of topic above the level available through coursework. Requires submission of and approval of project proposal prior to registration. Prerequisite: special approval.

**45145 Tailoring (3)**

Traditional and contemporary techniques for constructing tailored garments. Prerequisites: minimum grade of C (2.0) in FDM 30122 and 30142. Special fee: \$15 flat fee—subject to change.

**45192 Internship in Fashion Merchandising (3)**

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; and fashion merchandising (FM) major; and special approval for internship site.

**45212 Fashion Show Productions (3)**

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.

**45292 Internship in Fashion Design (3)**

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 30121 and fashion design (FD) major; and special approval for internship site.

**45392 Field Experience Fashion Study Tour (1-3)**

Visit to domestic or foreign fashion market, including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry. Prerequisite: special approval. Special fee: actual cost basis.

**45492 Field Experience Study Tour for NYC Studio Students (3)**

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. S/U grading. Prerequisites: special approval and fashion design (FD) or fashion merchandising (FM) major.

**45592 Field Experience European Fashion Study Tour for Florence Students (3)**

Visit to European fashion markets including design and fabric houses or showrooms, retail stores, buying offices and other areas of the fashion industry. S/U grading. Prerequisites: special approval and fashion design (FD) or fashion merchandising (FM) major.

## Finance (FIN)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Finance (FIN)

### 26070 Introduction to Law (3)

Evolution and implications of fundamental legal concepts and institutions. Introduction to the case method; substantive and procedural law; and various forms of legal activity. Prerequisite: none.

### 26074 Legal Environment of Business (3)

Coverage of the nature, structure and significance of the legal and regulatory areas which confront business, with special emphasis on business ethics and environmental and international issues. Prerequisite: sophomore standing.

### 36040 Me and My Money (3)

Provides non-business majors with a practical overview of the essential aspects of personal finance necessary to function in today's complex economy. Prerequisites: none. No credit toward BBA degree.

### 36053 Business Finance (3)

Analysis of financial decisions in business enterprise and interface of firm with capital markets. Prerequisites: minimum 2.50 cumulative GPA; and ACCT 23020 or ACTT 11000; and ECON 22060 or HONR 21197; and ECON 22061 or HONR 21297.

### 36054 Intermediate Business Finance (3)

Treatment of uncertainty in business financial analysis. Overview of investment markets, financial institutions and international financial environment. Prerequisite: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36053.

### 36058 The Financial System (3)

Analysis of financial markets and institutions emphasizing current issues, regulatory aspects and management concerns. Prerequisite: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36053.

### 36059 Investments (3)

Discussion of factors determining value of investment securities with attention to economic, regulatory and global influences. This course may count as an elective in a College of Business Administration program. Prerequisite: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36053.

### 36061 Real Estate Principles (3)

Principles and practices of real estate, real estate laws, contractual instruments, valuation, financing and markets in commercial and residential real estate. Prerequisite: finance (FIN) major and minimum 2.50 cumulative GPA and junior standing.

### 36063 Individual Investment Analysis and Strategies (3)

Examination of investment analysis and strategies with emphasis on individuals. Open only to nonfinance 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: minimum 2.50 cumulative GPA and FIN 36053; not open to finance (FIN) majors.

### 36072 Law of Commercial Transactions (3)

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: minimum 2.50 cumulative GPA; and FIN 26074 or BMRT 21000; not open to finance (FIN) majors.

### 36081 Principles of Insurance (3)

Examination of insurance industry, its regulatory environment and insurance contracts. Life and health insurance, as well as property and liability insurance are covered. Prerequisites: finance (FIN) major and minimum 2.50 cumulative GPA and ECON 22060 and 22061.

### 36085 Financial Modeling (3)

Provides students explicit experience with financial modeling. Business problems are systematically designed and solved using computerized spreadsheets. Prerequisites: FIN 36054 and MIS 24053.

### 46054 Financial Risk Management (3)

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: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36053.

### 46055 Options and Futures Markets (3)

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: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36059.

### 46057 Financial Analysis (3)

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: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36053.

### 46059 Financial Policy (3)

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. Prerequisites: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36054 and MIS 24056. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### 46064 International Business Finance (3)

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. Prerequisites: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36053 and 36054 and senior standing.

### 46067 Portfolio Analysis (3)

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: finance (FIN) major and 2.50 cumulative GPA and FIN 36059.

### 46068 Financial Management of Commercial Banks (3)

Financial management techniques applied to commercial banks. Focus on management of liquidity, investment and loan portfolios and capital structure. Prerequisite: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36054 and 36058.

### 46096 Individual Investigation in Finance (1-3)

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: finance (FIN) major and minimum 2.50 cumulative GPA and special approval.

### 46192 Internship in Finance (3)

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: finance (FIN) major and minimum 2.50 cumulative GPA and special approval.

### 46295 Finance Special Topics (3)

Deal with special topics in finance or new subjects not covered in other existing courses. Prerequisites: finance (FIN) major and minimum 2.50 cumulative GPA and FIN 36053 and senior standing.

## French (FR)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > French (FR)

For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.

### 13201 Elementary French I (4)

An introduction to the French language in the context of Francophone cultures. Prerequisite: none.

### 13202 Elementary French II (4)

A continuation of the introduction to the French language in the context of Francophone cultures. Prerequisite: FR 13201.

### 23201 Intermediate French I (3)

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: FR 13202.

### 23202 Intermediate French II (3)

Continuation of FR 23201. Prerequisite: FR 23201.

### 23207 Business French I (3)

Terminology, organizations and modes of communication prevalent in modern French business world. Presentation of materials followed by practical exercises organized in situational units. Prerequisites: FR 23202 and special approval.

### 23208 Business French II (3)

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.

### 23209 Field Study (2-6)\*

(Repeatable for a total of 6 credit hours) For residence and/or field research in a French-speaking community. Prior to registration for this course, students must obtain departmental approval. IP grade permissible. Prerequisite: special approval.

### 33095 Selected Topics in French (3)

(Repeatable for a total of 9 credit hours) Topic to be announced in the Schedule of Classes. Prerequisite: FR 33211.

### 33211 French Conversation (3)

A course designed to enhance students' oral proficiency through instruction in facilitating conversation and the discussion of culture-based texts. Prerequisite: FR 23202.

### 33212 French Composition (3)

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.

### 33213 Intensive French Grammar (3)

Comprehensive, in-depth review of French grammar. Students should already have a grounding in spoken and written French. Prerequisites: FR 33211 and FR 33212.

### 33215 French Phonetics and Diction (3)

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.

### 33231 Translation Practice: French (1)

Translation practice with French texts using principles and techniques learned in the lecture class. Corequisite: MCLS 30230.

### 33240 Conversation for Business and Special Purposes: French (3)

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.

### 33301 French Play Production (3)

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.

### 33335 Introduction to French Theatre (3)

Evolution of French dramatic literature from the Middle Ages to the present. Readings of representative works with lectures and analyses. Course conducted in French. Prerequisite: FR 33212. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### 33336 Introduction to French Poetry (3)

Evolution of French poetry from the Middle Ages to the present. Readings of representative works with lectures and analyses. Course conducted in French. Prerequisite: FR 33212. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### 33337 Introduction to the French Novel (3)

Evolution of French novel from 17th century to present. Readings of representative major works, lectures and analyses. Course conducted in French. Prerequisite: FR 33212. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### 33421 French Civilization (3)

A survey of French history and culture from its beginnings to World War II. Course conducted in French. Prerequisite: FR 33212.

### 43091 French Seminar (3)

Topic to be announced. Prerequisite: FR 33335 or 33336 or 33337.

### 43093 Variable Title Workshop in French (1-6)

Workshops individually designed to provide instruction and training in specific areas of French studies. S/U grading. Prerequisite: departmental special approval.

### 43096 Individual Investigation (1-3)

(Repeatable for a total of 6 hours) 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. IP grade permissible. Prerequisite: special approval.

### 43213 French Composition—Advanced (3)

French stylistics developed by analyses of literary extracts and practice in written expression. Prerequisite: FR 33335 or 33336 or 33337 or 33421.

### 43216 Contemporary French Culture (3)

A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world. Prerequisite: FR 33421.

### 43230 Advanced Translation Practice: French (3)

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### 43240 Business and Special Texts: French (3)

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.

### 43366 Studies in Nineteenth-Century French Literature (3)

Study of selected topics in 19th-century French literature. Prerequisite: 6 credit hours from the 33330 level.

### 43368 The Twentieth-Century French Novel (3)

Studies of selected 20th-century French novels, with detailed study of the novel of one or several major writers or movements. Prerequisite: 6 credit hours from the 33330 level.

### 43369 Twentieth-Century French Poetry (3)

A study of selected poetry of Apollinaire, Breton, Mansour, Eluard, Michaux, Char, Reverdy, Ponge, Guillevic, Jabes, Bonnefoy, Dupin, Alpiach and others. Emphasis is placed on the relationship between poetry and the visual arts in the 20th century. Prerequisite: 6 credit hours from the FR 33330 level.

**43370 The Twentieth Century French Theatre (3)**

Studies in French drama since 1900.

Prerequisite: 6 credit hours from the 33330 level.

**43380 Francophone Literature (3)**

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 credit hours from the FR 33330 level.

*\*Course ineligible to be repeated for GPA recalculation.*

**Geography (GEOG)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Geography (GEOG)

**10160 Introduction to Geography (3)**

Emphasizes processes which 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. This course may be used to satisfy the Kent Core Requirements.

**16001 Soil and Horticultural Management (3)\*\***

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. (At Salem Campus only.) Prerequisite: none.

**17063 World Geography (3)**

Examination and comparison of geographic conditions in different regions of the world. Stresses interrelationships between people and resources within and between regions and countries. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**17064 Geography of the United States and Canada (3)**

Analysis of the spatial patterns of significant human and physical characteristics and interpretation of the major regions within the two nations. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**20195 Special Topics in Geography (1-3)\***

(Repeated registration permissible) Explores emerging topics in geography not covered in other existing courses. Variable content course. Prerequisite: none.

**20977 Survey of Geography (1)**

Introduces geography as a professional discipline; presents faculty and their research interests. S/U grading. Prerequisite: Geography (GEOG) major.

**21062 Physical Geography (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**21063 Physical Geography Laboratory (1)**

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. This course may be used to satisfy the Liberal Education Requirements (LER).

**22040 Introduction to Global Tourism (3)**

(Cross-listed with RPTM 26060) 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.

**22061 Human Geography (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**29160 Mapping Our World (3)**

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.

**31062 Fundamentals of Meteorology (3)**

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.

**31064 Principles of Climatology (3)**

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.

**31070 Population and the Environment (3)**

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.

**31080 Geography of Wine (3)**

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.

**32080 Politics and Place (3)**

Spatial aspects of political behavior as manifested in boundary changes, the sizes of states, interstate relations and spatial organization. Prerequisite: none. This course may be used to satisfy the diversity requirement.

**34070 Economic Geography (3)**

Study of worldwide variations in economic activities, emphasizing both the reasons for and the significance of these variations. Prerequisite: none.

**35065 Geography of Transportation and Spatial Interaction (3)**

Spatial interaction. Study of flows, networks and integrated systems at different spatial scales. Transport and economic development. Models and methods of analysis. Prerequisite: none.

**36065 Cities and Urbanization (3)**

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. This course may be used to satisfy the diversity requirement.

**37010 Geography of Ohio (3)**

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.

**37040 Geography of Africa (3)**

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. This course may be used to satisfy the diversity requirement.

**37050 Geography of Russia and the Commonwealth of Independent States (3)**

Study of the physical, economical, political and cultural geography of Russia, Ukraine, Central Asia and other components of the former Soviet Union. Prerequisite: none. This course may be used to satisfy the diversity requirement.



**37066 Geography of Europe (3)**

Examination of the cultural, economic, political and physical geography of Western and Eastern Europe (excluding the former U.S.S.R.). Prerequisite: none. This course may be used to satisfy the diversity requirement.

**37070 Geography of East and Southeast Asia (3)**

Analysis of the physical and cultural geography of east and Southeast Asia, extending from Japan and China to Burma and Indonesia. Prerequisite: none. This course may be used to satisfy the diversity requirement.

**37079 Geography of South Asia (3)**

Physical and cultural geography of South Asian region including India, Pakistan, Bangladesh, Nepal, Bhutan and the Maldives Islands. Prerequisite: none. This course may be used to satisfy the diversity requirement.

**37084 Geography of South America (3)**

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. This course may be used to satisfy the diversity requirement.

**37085 Geography of Central America and Mexico (3)**

Geographic analysis and interpretation of major regions of Central America, Mexico and the Caribbean. Evaluation of physical environments and development problems. Prerequisite: none. This course may be used to satisfy the diversity requirement.

**39002 Statistical Methods in Geography (3)**

Explores probability theory, spatial statistics, estimation procedures, hypothesis testing, spatial sampling, methods of areal association and regression analysis. Geographic applications are emphasized. Prerequisite: MATH 10041 or 11009 or 11010 or 11011.

**39161 Introduction to Cartography (3)**

Mapmaking from compilation through reproduction; development of skills in drafting, generalization, symbolization, design; familiarization with relief representation, statistical maps and map projections. Corequisite: GEOG 39162. Prerequisites: GEOG 29160 and MATH 10041.

**39162 Introduction to Cartography Laboratory (1)**

Practical experience in mapmaking. Actual map compilation design, drafting and reproduction is stressed. Corequisite: GEOG 39161.

**40093 Variable Title Workshop in Geography (1-6)**

S/U grading. Prerequisite: special approval.

**40191 Seminar in Geography (3)**

(Repeatable for a total of 6 credit hours) 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. Prerequisite: junior standing and geography (GEOG) major. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**40192 Practicum in Geography (1-3)**

(Repeated registration permissible) Practical experience in using or teaching geographic techniques and/or problem-solving. Faculty supervised. S/U grading; IP grade permissible. Prerequisite: special approval.

**40195 Special Topics in Geography (1-3)**

Prerequisite: special approval.

**40292 Field Experience in Geography (1-6)**

(Repeated registration permissible) Examination of geographic landscapes in the field. S/U grading. Prerequisite: special approval. Special fee—actual cost basis.

**40392 Practicum in Emerging Geographic Trends (1-6)**

(Repeated registration permissible) Examination of newly emerging geographic topics and techniques. S/U grading. Prerequisite: special approval. Special fee—actual cost basis.

**40996 Individual Investigation in Geography (1-3)**

Individual undergraduate investigation or research on specific geographical problems. IP grade permissible. Prerequisite: special approval.

**41050 Polar and Alpine Environments (3)**

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.

**41052 Glaciers and Glaciation (3)**

(Cross-listed with GEOL 44052) 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. Special fee: \$100 flat fee—subject to change.

**41062 Advanced Physical Geography (3)**

Advanced systematic analysis of the elements of physical geography. Specific analytical methodologies and their application to physical geography are also discussed. Prerequisite: GEOG 21062.

**41066 Climate Change and Its Impact (3)**

Examination of the evidence and causes of climate change and how this data is assessed. Past, present and future impacts of climate

change and variability are discussed, along with policy implications. Prerequisites: GEOG 31062 and 31064.

**41073 Conservation of Natural Resources (3)**

Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization. Prerequisite: none.

**41074 Resource Geography (3)**

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.

**41082 Geography of Soils (3)**

An edaphological approach to soils including morphology, formation, classification, geographical distribution and utilization. Fieldwork required. Prerequisite: GEOG 21062 or GEOL 11040.

**42040 Tourism Development and Recreational Travel (3)**

(Cross-listed with RPTM 46000) Investigation of travel and tourism development using an interdisciplinary social science approach. Prerequisite: RPTM 36060.

**42052 Medical Geography (3)**

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.

**42064 Historical Geography of the United States and Canada (3)**

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.

**44010 Geography of the Global Economy (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**44070 Spatial Analysis and Location Theory (3)**

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.



**45085 Urban Transportation (3)**

Spatial analysis of urban transportation, travel behavior, modes. Trip generation and distribution models, transportation planning, urban transportation problems. Prerequisite: none.

**46035 Marketing Geography (3)**

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.

**46065 Advanced Urban Geography (3)**

Investigation of advanced concepts pertaining to the spatial structure of urban areas. Prerequisite: GEOG 36065.

**46070 Urban and Regional Planning (3)**

Analysis of geographical aspects of planning for cities and regions. Prerequisite: none.

**46092 Internship in Geography and Planning (3-6)**

Preprofessional work experience in local, regional and environmental planning agencies and in business designed to utilize and develop academic skills. Prerequisite: special approval.

**49070 Geographic Information Science (3)**

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 lab exercises using GIS software packages for real world applications. Prerequisite: at least 6 credit hours of geography (GEOG) courses.

**49076 Spatial Programming (3)**

Examination of the design, development and use of geographic information technologies with computer programming to model, process and visualize geographic phenomena. Prerequisite: GEOG 49070.

**49080 Advanced Geographic Information Science (3)**

Advanced theories and techniques for handling geographic information systems, including 2-D and 3-D processing of geographic information, detection and analysis of geographic patterns, 2-D and 3-D mapping of geographic information, modeling of geographic processes, and an overview of GIS programming tools. Prerequisite: GEOG 49070.

**49098 Research in Geographic Information Technology (1-3)**

(Repeated registration permissible) Individual research on a topic in geographic information technology. IP grade permissible. Prerequisite: special approval.

**49162 Advanced Cartography (3)**

Study of the design and production of complex maps. Symbolization, composition and color utilization. Corequisite: GEOG 49163. Prerequisite: GEOG 39161.

**49163 Advanced Cartography Laboratory (1)**

Practical experience in the techniques of production and reproduction of maps. Corequisite: GEOG 49162.

**49165 GeoMapping (3)**

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 39161.

**49198 Research in Cartography (1-3)**

(Repeated registration permissible) Individual research on a topic in cartography. IP grade permissible. Prerequisite: special approval.

**49210 Earth Imagery (3)**

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.

**49211 Earth Imagery Laboratory (1)**

Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized. Prerequisite: none.

**49230 Remote Sensing (3)**

(Cross-listed with GEOL 42030) Emphasis on computer analysis of LANDSAT data using multivariate statistical tools. Introduces statistical methods and use of computer. Problems in Earth science are stressed. Prerequisite: special approval.

**49480 Field Study in Geography (3)**

Present methods of planning and structuring field studies, the techniques of mapping and data gathering in the analysis of local field problems. Prerequisite: geography (GEOG) major.

**49482 Field Study of Selected Rural and Urban Areas (5)**

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 lab fee to university. Special fee—actual cost basis. Prerequisite: special approval.

**49890 Applied Geography (3)**

Detailed investigation of application of geographic techniques and knowledge toward problem solving in the "real world." Prerequisite: 10 undergraduate geography (GEOG) credit hours.

*\*Course ineligible to be repeated for GPA recalculation.*

*\*\*Courses offered only at Regional Campuses.*

**Geology (GEOL)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Geology (GEOL)

**11040 Earth Dynamics (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**11041 Earth Dynamics Laboratory (1)**

Lab study of minerals, rocks, aerial photos, topographic maps and geologic maps. Pre/corequisite: GEOL 11040. This course may be used to satisfy the Kent Core Requirements.

**11042 Earth History (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**11043 Earth History Laboratory (1)**

Lab study of fossils, sedimentary rocks and geologic maps in the framework of interpreting Earth history. Pre/corequisite: GEOL 11042. This course may be used to satisfy the Kent Core Requirements.

**21061 Glacial Geology (3)**

Origin and movement of glaciers, glacial erosion, transport, nature of glacial drift, Pleistocene stratigraphy, periglacial phenomena and climatic oscillations. Field trips. Three-hour lecture weekly. Prerequisite: GEOL 11041.

**21062 Environmental Geology (3)**

Application of geology to environmental problems including natural resource extraction, water supply, pollution, waste disposal, landslides, floods and land use planning. Field trips. Three-hour lecture weekly. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

**21080 Oceanography (3)**

Introduction to geological, physical, chemical and biological nature of the oceans. Three-hour lecture weekly. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

**23063 Mineralogy (4)**

Occurrence, associations, characteristics, crystallography and crystal chemistry of common minerals. Lab identification emphasizing physical properties. Lecture three hours, lab two hours weekly. Required field trip. Prerequisites: GEOL 11040 and 11041. Pre/corequisite: CHEM 10060.

**31070 Petrology (4)**

Occurrence and origin of igneous, sedimentary and metamorphic rocks. Lab identification, description and classification of hand specimens. Lecture three hours, lab two hours weekly. Required field trip. Prerequisite: GEOL 23063.

**31080 Structural Geology (4)**

Mechanical principles of rock deformation. Structures in sedimentary, igneous and metamorphic rocks. Lecture three hours, lab two hours weekly. Required field trip. Prerequisites: GEOL 31070.

**32066 Geomorphology (4)**

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. Prerequisites: GEOL 11040 and 11041.

**34061 Invertebrate Paleontology (4)**

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. Prerequisites: GEOL 11042 and 11043 and either BSCI 10110 or 20560. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**40093 Variable Title Workshop in Geology (1-8)**

(Repeated registration permissible) Workshop or training program focused on a specific professional or disciplinary topic within geology. S/U grading. Prerequisite: special approval.

**40095 Selected Topics in Geology (3)**

Selected topics presented by visiting professors or one-time offerings presented by regular faculty. Prerequisite: 20 credit hours of geology (GEOL) courses.

**40096 Individual Investigation in Geology (1-3)**

Directed field, lab and/or library research. Written report required. Open on special approval of faculty member directing work. Only 3 credit hours will be applied toward baccalaureate degree. Does not count toward geology major. IP grade permissible. Prerequisite: special approval.

**41025 General Geophysics (3)**

Physics of Earth, seismology, geomagnetism, heat flow, radioactivity, geochronology, geotectonic models. Required field trip. Prerequisites: GEOL 31070 and 31080; and MATH 12002; and PHY 13001 or 23101.

**41073 Geology of Ohio (3)**

Minerals, rocks, fossils, structural geology, physiography, environmental geology and geologic resources. Required field trips. Does not satisfy requirements of geology major. Prerequisite: junior standing.

**41075 Geology of the United States (3)**

Distribution of natural regions and geologic features of United States. Geologic concepts illustrated by detailed examination of selected areas. Prerequisite: GEOL 31070 and 31080.

**41077 Geology of the National Parks (3)**

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.

**41079 All About Dinosaurs (3)**

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.

**41080 Tectonics and Orogeny (3)**

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.

**41092 Summer Field Camp (6)**

Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in Black Hills, S.D. Prerequisites: GEOL 31070 and 31080. Special fee—actual cost basis.

**42030 Remote Sensing (3)**

(Cross-listed with GEOG 49230) Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized. Prerequisite: none.

**42035 Scientific Methods in Geology (3)**

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.

**42067 Introductory Hydrogeology (3)**

Occurrence of groundwater in geologic materials, emphasizing utilization, conservation and management of groundwater resources. Lecture two hours, lab two hours weekly. Prerequisites: MATH 12002 and GEOL 31070 and 32066.

**42068 Contaminant Hydrology and Hydrogeology (3)**

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. Prerequisites: GEOL 42067 and CHEM 10060 and 10061 and 10062 and 10063.

**42069 Hydrogeochemistry (3)**

Processes and evolution of the chemical composition of water in the natural hydrologic cycle. Methods of hydrochemical interpretation applied to groundwater and pollution problems. Three-hour lecture weekly. Prerequisites: 10 credit hours of chemistry (CHEM) courses.

**42074 Environmental Core and Well Logging (3)**

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.

**42078 Engineering Geology (4)**

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 (GEOL) majors and junior standing.

**43040 Principles of Geochemistry (3)**

Introduction to chemical thermodynamics and its applications in solving geochemical problems. Distributions of elements and isotopes in the Earth and laws governing these distributions. Prerequisites: GEOL 31070 and MATH 12002 and CHEM 10060 and 10061.

**43066 Optical Petrography (3)**

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.

**44052 Glaciers and Glaciation (3)**

(Cross-listed with GEOG 41052) 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. Special fee: \$100 flat fee—subject to change.

**44070 Principles of Stratigraphy (4)**

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. Prerequisites: GEOL 31070 and 34061.

**44074 Paleocceanography (3)**

A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy, is employed to interpret the history of Earth's oceans. Prerequisite: senior standing and geology (GEOL) major.

**German (GER)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > German (GER)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

*The following course is taught in English and does not presuppose a preparation in the language in question: German 31501.*

**11201 Elementary German I (4)**

An introduction to the German language in the context of the cultures of German-speaking lands. Prerequisite: none.

**11202 Elementary German II (4)**

A continuation of the introduction to the German language in the context of the cultures of German-speaking lands. Prerequisite: GER 11201.

**21201 Intermediate German I (3)**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: GER 11202.

**21202 Intermediate German II (3)**

Continuation of GER 21201. Prerequisite: GER 21201.

**23531 Yiddish Short Story (3)**

Introduction to Yiddish short stories in English translation with a special emphasis on works by Aleichem, Peretz and Mendele. Prerequisite: sophomore standing.

**23532 Yiddish Drama (3)**

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.

**31095 Special Topics (1-3)**

May be repeated when content varies. Topic announced in Schedule of Classes. Prerequisite: junior standing.

**31201 Intensive German Grammar (3)**

A systematic approach to German grammar and syntax. Prerequisite: GER 21202.

**31211 German Composition and Conversation (3)**

Grammar review and practice in writing and speaking German. Prerequisite: GER 21202 and 31201.

**31215 German Phonetics and Diction (3)**

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.

**31231 Translation Practice: German (1)**

Translation practice with German texts using principles and techniques learned in the lecture class. Corequisite: MCLS 30230.

**31240 Conversation for Business and Special Purposes: German (3)**

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.

**31303 Introduction to German Literature (3)**

Introduction to German literature and textual analysis. Prerequisites: GER 21202 and 31201.

**31421 German Civilization (3)**

A survey of German history and intellectual life to 1918; taught in German. Prerequisite: 6 credit hours upper-division German (GER) courses.

**31501 German Literature in English Translation (3)**

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.

**41095 Special Topics (1-4)**

(Repeated registration permissible when content varies) Topic announced in Schedule of Classes. Prerequisite: senior standing.

**41096 Individual Investigation (1-3)**

Independent investigation of problems in German language or literature. IP grade permissible. Prerequisites: 6 credit hours of upper-division German (GER) and special approval of the department chairperson.

**41211 Advanced German Composition and Conversation (3)**

Advanced practice in speaking and writing German. Prerequisite: GER 31211.

**41216 Contemporary German Culture (3)**

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: 6 credit hours upper-division German (GER) courses. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41230 Advanced Translation Practice: German (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41240 Business and Special Texts: German (3)**

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.

**41330 Twentieth-Century German Authors (3)**

A survey of the major movements and authors of the 20th century. Prerequisite: special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41331 History of German Literature (4)**

History of the development of German literature from 750 to the present. Prerequisite: special approval.

**41332 German Literature by Women (3)**

Readings of works by female German authors. Taught in German. Prerequisite: junior standing.

**41334 The German Novella (3)**

Development of the German novella from the 18th-century to the present. Readings of major works, lectures, analyses; taught in German. Prerequisite: special approval.

**41335 German Drama (3)**

An examination of the development of the drama in Germany, Austria and Switzerland. Taught in German. Prerequisite: 6 credit hours of upper-division German (GER) courses.

**41338 German Poetry (3)**

An examination of the nature of poetry with particular attention to its development in Germany, Austria and Switzerland. Taught in German. Prerequisite: 6 credit hours of upper-division German (GER) courses.

**41365 Classical German Literature (3)**

Reading and critical analysis of major works of the Classical Age with emphasis on Goethe. Prerequisite: special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41399 Research Project in German Literature (3)**

Thesis or other independent study. IP grade permissible. Prerequisite: 6 credit hours of German (GER) at the 40000 level.

**41731 Survey of German Cinema (3)**

A survey of major contributions to the German cinema from the beginnings to the present; taught in German. Prerequisite: 6 credit hours of upper-division German (GER) courses.

**Gerontology (GERO)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Gerontology (GERO)

**14029 Introduction to Gerontology (3)**

An interdisciplinary approach to the aging process. Experiences with older members of the community are included. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**30656 Psychology of Aging (3)**

(Cross-listed with PSYC 30656) 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.

**41093 Variable Topic Workshop in Gerontology (1-3)**

Workshop setting dealing with a topic or topics in aging. Learning experiences are provided in a wide range of areas. S/U grading. Prerequisite: none.

**41095 Special Topics in Gerontology (1-4)**

Discussion of a major topic within a specific field of gerontology. Prerequisite: none.

**41096 Individual Investigation (1-3)**

Independent study in gerontology. Prerequisite: written special approval from instructor.

**43092 Practicum in Nursing Home Administration I (5)**

Internship in nursing home care facility. One, 3 hour, on-campus seminar every three weeks (meets five times). Prerequisites: human development and family studies (HDFS) majors; and senior standing.

**43192 Practicum in Nursing Home Administration II (5)**

Internship in nursing home care facility. One, 3 hour, on-campus seminar every three weeks (meets five times). Prerequisites: human development and family studies (HDFS) majors; and senior standing.

**44030 Adult Development and Aging (3)**

Examines developmental processes across adulthood. Evaluation of theoretical models and scientific literature. Prerequisite: human development and family studies (HDFS) majors only. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**44031 Social Policy and Community Resources for Older Adults (3)**

Overview of national, state and local public policy affecting older adults. Legislation, funding, planning and the service delivery system are examined. Prerequisite: GERO 44030.

**44032 Long Term Care Administration (3)**

Presents and overview and introduction to the principles of long-term care (LTC) administration and other administration options. Prerequisites: human development and family studies (HDFS), integrated health studies (IHS), integrated life science (ILS) or nursing (NURS) majors; and junior or senior standing.

**44092 Practicum in Gerontology (3-10)**

(Repeatable for a total of 20 credit hours) Observation and participation in long-term care of community agencies. One class discussion per week. S/U grading. Prerequisites: human development and family studies (HDFS) majors and senior standing.

**Greek (GRE)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Greek (GRE)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

**14201 Elementary Classical Greek I (4)**

An introduction to the classical Greek language in the context of ancient Greek culture. Prerequisite: none.

**14202 Elementary Classical Greek II (4)**

A continuation of the introduction to the classical Greek language in the context of ancient Greek culture. Prerequisite: GRE 14201.

**14205 Elementary Modern Greek I (4)**

An introduction to the modern Greek language in the context of Greek culture. Prerequisite: none.

**14206 Elementary Modern Greek II (4)**

A continuation of the introduction to the modern Greek language in the context of Greek culture. Prerequisite: GRE 14205.

**24201 Intermediate Classical Greek I: Readings (3)**

Excerpts from classical Greek literature with emphasis on translation into English. Prerequisite: GRE 14202.

**24202 Intermediate Classical Greek II: Readings (3)**

Excerpts from classical Greek literature with emphasis on both prose (e.g., Plato) and poetry (e.g., Euripides). Prerequisite: GRE 24201.

**24208 Intermediate Modern Greek I (3)**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: GRE 14206.

**24209 Intermediate Modern Greek II (3)**

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.

**34350 Advanced Prose Authors (3)**

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.

**34351 New Testament in Greek (3)**

Selected New Testament readings in the original language, including the Gospels and the letters of Paul. Prerequisite: GRE 24202.

**34370 Plato: Apology and Phaedo (3)**

Readings in the original Greek of Plato's dialogues centering on the trial, conviction and death of Socrates. Prerequisite: GRE 24202.

**34371 Homer (3)**

Selections from the Iliad or Odyssey studied from a literary and grammatical standpoint. Prerequisite: GRE 24202.

**40393 Variable Title Workshop (1-6)**

Workshops individually designed to provide instruction and training in specific areas of Greek studies. S/U grading. Prerequisite: departmental special approval.

**44096 Individual Investigation (1-3)**

Investigation of problems in Greek literature or linguistics. IP grade permissible. Prerequisite: departmental special approval.

**44352 Greek Drama (3)**

Selections from Aeschylus, Sophocles or Euripides with discussion of Greek dramatic technique and influence. Prerequisite: GRE 24202.



## Human Development and Family Studies (HDFS)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Human Development and Family Studies (HDFS)

### 14027 Introduction to Human Development and Family Studies (2)

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.

### 24011 Interpersonal Relationships and Families (3)

(Cross-listed with SOC 24011) Exploration of the sociological nature of families across the life span, 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. This course may be used to satisfy the diversity requirement.

### 24012 Child Development (3)

General development of the child from prenatal through middle childhood. Prerequisite: HDFS 24011.

### 24013 Early Adolescence (3)

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 schools, human services agencies and youth development programs. Prerequisite: none.

### 24095 Special Topics in Human Development and Family Studies (1-4)\*

Discussion of a major topic within human development or family studies. Prerequisite: HDFS 24011.

### 25512 Management of Family Resources (3)

Management as applied to individuals, families and human service professionals. Prerequisite: HDFS 24011.

### 34013 Development in Infancy (3)

Study of genetic influences, prenatal development and birth, and the developmental characteristics of the infant and toddler. Prerequisites: HDFS 14027 and 24012.

### 34031 Cultural Diversity: Implications for the Helping Professions (3)

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.

### 41093 Variable Topic Workshop: Human Development and Family Studies (1-3)

Workshop setting dealing with a topic or topics in human development and family studies. Learning experiences are provided in a wide range of areas. S/U grading. Prerequisite: none.

### 41095 Special Topics in Human Development and Family Studies (1-4)

Discussion of a major topic within human development or family studies. Prerequisite: none.

### 41096 Individual Investigation (1-3)

Independent study in human development and family studies. Prerequisite: written special approval from instructor.

### 44018 Professional Development in Human Development/Family Studies (3)

Preparation of students for professional work experiences as well as providing an opportunity to discuss recent developments in the fields of human development and family studies and gerontology. Prerequisites: human development and family studies (HDFS) majors and senior standing.

### 44019 Intergenerational Experiences (3)

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. 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.

### 44020 Adolescent Development (3)

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.

### 44021 Family Intervention Across the Lifespan (3)

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.

### 44022 Changing Roles of Men and Women (3)

A study of roles of men and women—past, present and future. Prerequisite: none.

### 44023 Building Family Strengths (3)

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.

### 44028 Parent-Child Relationships (3)

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.

### 44029 Family Policy (3)

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.

### 44030 Family Life Education Methodology (3)

Developing teaching methods and techniques for family life education and the study of family life education content areas. Prerequisite: GERO 44030.

### 44031 Intergenerational Family Caregiving (2)

Intergenerational concerns of family caregivers across the lifespan, coping resources, formal and informal support systems. Prerequisite: none.

### 44032 Nonprofit Fundraising and Grantwriting (3)

Provides comprehensive preparation in planning, seeking and acquiring funding from available resources in supporting the mission of nonprofit human service agencies. Prerequisite: none.

### 44033 Nonprofit Management I (3)

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.

### 44034 Nonprofit Management II (3)

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.

### 44035 Assessment and Strategies in Case Management (2)

An examination of the evaluation of client needs and assessment of client condition. Emphasizes interviewing as a major assessment strategy. Corequisites: HDFS 44192 and junior standing.



**44036 General Case Management Methods (3)**

Examination of case management processes and strategies, with focus on community resources to meet client needs in the human service setting. Prerequisites: HDFS 44035 and junior standing. Corequisite: HDFS 44292.

**44037 Positive Youth Development (3)**

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. Components 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. Prerequisites: HDFS 34031 and 44035 and 44037; and HED 34060; and human development and family studies (HDFS) major.

**44038 Professional Child and Youth Work Practice (3)**

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.

**44092 Practicum in Human Development and Family Studies (3-10)**

(Repeatable for a total of 20 credit hours) Observation and participation in child, family and social service agencies. One class discussion per week. S/U grading. 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: human development and family studies (HDFS) majors and HDFS 44018 and senior standing with an overall GPA of 2.50.

**44192 Internship in Human Development and Family Studies—Case Management I (3-6)**

Supervised field experience in a human service agency. Joint university-agency supervision. Corequisites: HDFS 44035 and junior standing.

**44292 Internship in Human Development and Family Studies—Case Management II (3-6)**

Continued supervised field experience in a human service agency. Join university-agency supervision. Prerequisites: HDFS 44192 and junior standing. Corequisite: HDFS 44036.

*\*Course ineligible to be repeated for GPA recalculation.*

**Hebrew (HEBR)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Hebrew (HEBR)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

**12101 Elementary Hebrew I (4)**

An introduction to the modern Hebrew language in the context of Israeli culture. Prerequisite: none.

**12102 Elementary Hebrew II (4)**

A continuation of the introduction to the modern Hebrew language in the context of Israeli culture. Prerequisite: HEBR 12101.

**22104 Intermediate Hebrew I (3)**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: HEBR 12102.

**22105 Intermediate Hebrew II (3)**

Continuation of HEBR 22104. Prerequisite: HEBR 22104.

**Health Education (HED)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Health Education (HED)

**11570 Personal Health (3)**

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.

**11590 Community Health Education(3)**

Identification of community health problems and measures for control. Emphasizes principles, objectives and methods of community health education. Prerequisite: none.

**13510 Winning Combination: Health and Athletes (1)**

An exploration of strategies for promoting healthy lifestyles for athletes. The course is reserved for varsity athletes. Prerequisite: special approval.

**14020 Medical Terminology (3)**

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.

**20000 Health Education for Early Childhood Educators (3)**

Investigate current health issues relevant to children in preschool environments/primary grades; identify educational strategies to increase student health knowledge, foster positive health attitudes and promote healthy behaviors. Prerequisite: none.

**21030 Introduction to Health Education (3)**

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.

**21050 Health Behavior Theories (3)**

Application of various attitude and behavior models to health and illness behavior in order to develop a framework for educational intervention. Prerequisite: none.

**32530 Drug Use and Misuse (3)**

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.

**32542 Methods and Applications of Health Education (5)**

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. 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 11590. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**32544 Human Sexuality (3)**

A study of the role and meaning of human sexuality throughout the life cycle for self and society. Prerequisite: none.

**32565 Marketing in Health Education (3)**

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.

**32575 Consumer Health (3)**

An overview of the health marketplace including health products, services, financing, promotional practices and consumer protection laws. Prerequisite: none.

**34050 Program Planning and Evaluation in Health Education (3)**

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. Prerequisites: HED 11590 and 32542.

**34060 Small Group Processes (2)**

(Cross-listed with CHDS 37800) Group processes in human relationships, including techniques of democratic leadership and effective group membership. This course includes 25 field/clinical hours. Prerequisite: none.

**36048 Emergency Medical Training (5)**

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 Department of Public Safety, Division of EMS. Prerequisite: special approval required. Special fee: \$4/credit hour—subject to change.

**40093 Variable Title Workshop in Health Education and Promotion (1-3)**

Discussion of major issues in health and safety education. Content, emphasis and prerequisites vary depending on workshop. S/U grading. Prerequisites: HED 11590 and special approval.

**41561 Environmental Health (3)**

Effects on human health of overpopulation and various sources of energy and the resultant environmental pollutants. Consideration of alternatives and solutions. Prerequisite: HED 11570.

**42041 Health Counseling (3)**

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.

**42358 Student Teaching in Health Education (9)**

Provides a twelve week student teaching experience. See Student Teaching section of the Catalog. S/U grading. 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.

**42575 Health and Learning: Strategies for Students and Teachers (3)**

Focus on health issues/education/environment policy and practice strategies to respond to threats confronting students utilizing a coordinated school/community strategy to promote health to improve academic outcomes. CPR and first aid certification required for completion of course. Prerequisite: admission to advanced study.

**42580 Professional Issues in Health Education (2)**

Career preparation through investigation of professional role, standards, issues in work settings. Prerequisite: HED 44095.

**44025 Women's Health Issues (3)**

Traditional and feminist analysis of women's health issues and the health educational responses to those issues. Prerequisite: none.

**44092 Internship in Community Health Education (12)**

Participation for one academic semester in the health education activities of an approved agency, organization or industry. IP grade permissible. Prerequisites: senior standing and special approval.

**44095 Special Topics: Health Education and Promotion (1-3)**

Selected topics related to public health issues facing professionals in communities, schools, health care settings and the worksite. Prerequisite: none.

**44096 Individual Investigation in Health Education and Promotion (1-3)**

Independent reading and/or research directed by a HED faculty member. S/U grading; IP grade permissible. Prerequisite: special approval.

**44543 Administration of School Health Programs (3)**

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.

**44544 Sexuality Education Programs (3)**

This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings. Prerequisite: HED 32544.

**44550 Drug Abuse and Violence Education Programs (3)**

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.

**44565 Health Data Analysis and Presentation (3)**

Analysis, interpretation and presentation of data utilized in epidemiological surveillance and evaluation. Application of statistical and graphic computer programs in this area. Prerequisite: none.

**46052 Stress: Recognition and Management (2)**

An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors and the body's reaction to stress, as well as techniques for recognizing, preventing and reducing stress. Prerequisite: none.

**46057 Advanced Human Sexuality (3)**

Selected aspects of human sexuality; history, cross-cultural perspectives, medical/surgical conditions and sex therapy and counseling. Prerequisite: HED 32544.

**46060 Death Education (3)**

Issues of living with the human experiences of death and facilitating understanding with selected client systems in schools and community agencies. Prerequisites: HED 11570 and PSYC 11762.

**46070 Health Related Aspects of Aging (3)**

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.

**47070 AIDS: Issues, Education and Prevention (3)**

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.

**47091 Current Issues in Health Education and Promotion (1-3)**

Public health issues facing professionals in communities, schools, health care settings and the worksite. Prerequisite: junior or senior standing.

**48092 Field Experience in Health Education and Promotion (1-3)**

Observation and participation in educational and promotional activities of a public health agency, school or health care facility. Joint university-agency supervision. S/U grading; IP grade permissible. Prerequisite: special approval.

### **49525 Inquiry Seminar into Professional Practice (3)**

Interdisciplinary inquiry into teaching as a professional practice in health education; emphasis on teacher as disciplined investigator. Final semester of four. Utilization or teaching/learning technology. Prerequisite: admission to advanced study. Corequisite: HED 42358.

## **History (HIST)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > History (HIST)

### **11050 History of Civilization I (3)**

World history from early human societies through the mid-17th century. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

### **11051 History of Civilization II (3)**

Continuation of HIST 11050. World history from mid-17th century to the present. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

### **12070 History of the United States: The Formative Period (3)**

A survey of United States history through 1877. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

### **12071 History of the United States: The Modern Period (3)**

A survey of United States history since 1877. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

### **31009 History of Byzantine Civilization (3)**

The Byzantine Empire and its culture from the foundation of Constantinople to the Turkish Conquest (A.D. 330-1453). Prerequisite: none.

### **31024 World War II (3)**

Survey of one of the greatest political and military events in history, focusing especially on causes, and major personalities and chief political, ideological, moral, scientific and diplomatic aspects. Prerequisite: none.

### **31027 History of England to 1688 (3)**

Survey of medieval and early modern England. Topics include Norman Conquest, medieval culture and society, Reformation, Age of Elizabeth, English Revolution. Prerequisite: none.

### **31028 England Since 1688 (3)**

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.

### **31029 History of the British Empire and Commonwealth Since 1815 (3)**

Survey of British colonialism and nation-building with an emphasis on Canada, Australia, Ireland, India and South Africa. Prerequisite: none.

### **31030 NATO: The Enduring Alliance (3)**

Examination of the historical and contemporary roles of the North Atlantic Treaty Organization. Prerequisite: junior standing or special approval of instructor.

### **31050 History and Society of Modern Greece (3)**

Study of Modern Greece concentrating on political, economic, cultural and societal developments since 1821. Prerequisite: none.

### **31052 History of Modern France (3)**

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.

### **31061 History of Ohio (3)**

Prerequisite: none.

### **31070 History of American Business Enterprise (3)**

An analysis of American business institutions, practices and leadership from the Colonial period to the present. Prerequisite: none.

### **31075 History of Women in the United States (3)**

(Cross-listed with WMST 30100) An exploration of the political, economic, social, intellectual, and cultural forces that have shaped women's lives, women's thought, perception of womanhood, and feminism for 1607 to the present in what is now the United States. Prerequisite: none.

### **31080 African American History: Slavery to Freedom (3)**

(Cross-listed with PAS 33101). 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.

### **31081 African American History: Reconstruction to the Present (3)**

(Cross-listed with PAS 33102). 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.

### **31112 Chinese Civilization (3)**

General survey of evolution of Chinese civilization from the Bronze Age to the rise of communism.

Prerequisite: none.

### **31118 Vietnam War (3)**

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.

### **31125 Zionism and Israel (3)**

Describes history of the Zionist movement from religious, ideological and political viewpoints and the relationship between Zionism and the state of Israel. Prerequisite: none.

### **31126 History of the Middle East (3)**

A survey of Islamic civilization in Middle Eastern context from the earliest days to the present. Prerequisite: none.

### **31127 Ancient and Early Medieval Jewish History (3)**

Deals with the ancient and early medieval Jewish history from approximately 2000 B.C. to approximately A.D. 1200. Prerequisite: none.

### **31128 Late Medieval and Modern Jewish History (3)**

Survey of Jewish history in Europe and the Middle East from the age of the Crusades to the 20th century. Prerequisite: none.

### **31130 History of African Civilization (3)**

Survey of cultural, political, social and economic history of Africa from antiquity to European conquest. Emphasis on precolonial. Prerequisite: none.

### **31140 Modern Latin America (3)**

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. This course may be used to satisfy the diversity requirement.

### **31141 Early Latin America (3)**

Examines Latin America from precolonial times to the late 19th century. Lectures emphasize political and economic questions while readings focus on social history. Prerequisite: none.

### **31143 The African-Brazilian Experience in Culture and Literature (3)**

(Cross-listed with MCLS 37143 and PAS 37143) 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. This course may be used to satisfy the diversity requirement.

**32050 The Historian's Craft (3)**

Introduction to the practice of history, with a focus on basic research methods and the systematic production of a research paper. Prerequisite: history (HIST) major and 6 credit hours in history (HIST). This course may be used to satisfy the writing-intensive requirement with approval of major department.

**38095 Selected Topics in History (3)**

Special history course, varying in accordance with desire and competence of faculty. Precise title to be inserted in Schedule of Classes. Prerequisite: none.

**38997 Colloquium in History (3)**

Various philosophical and methodological approaches to the study of history are considered. Required for those seeking to graduate with honors in history. Prerequisite: none.

**40092 Internship in History (3)**

Student internship at an institution related to the history major (e.g., historical society, museum, archives, historic preservation organization). S/U grading. Prerequisite: junior standing

**40093 Workshop in History (1-6)**

Special workshop in history. Topic will vary according to professor. S/U grading. Prerequisite: none.

**40197 American Cultural Heritage: the Arts and Society (3)**

Examination of music, painting and literature in their cultural contexts during four periods of American history. American studies methodology and interdisciplinary thought. Prerequisites: junior standing and one prior course in history (HIST).

**41000 Introduction to Public History (3)**

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.

**41003 History of Ancient Greece (3)**

Survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great. Prerequisite: junior standing.

**41004 Hellenic Contributions to Western Civilization (3)**

Major intellectual and cultural achievements of the Greeks—ca. 800-350 B.C. Prerequisite: junior standing.

**41006 Roman History (3)**

(Cross-listed with CLAS 41006) A survey of Roman history from its beginnings to the fall of the Roman empire. Prerequisite: junior standing.

**41010 The Early Middle Ages (3)**

Survey of major political, social and cultural

developments of Europe from the fourth through 10th centuries. Prerequisite: junior standing.

**41011 The High Middle Ages (3)**

Survey of political, social and cultural developments of Europe from 11th through 13th centuries. Prerequisite: junior standing.

**41014 Europe in the Renaissance (3)**

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.

**41016 The Protestant and Catholic Reformations (3)**

Comprehensive course dealing with the religious, political, economic and social change accompanying the religious upheavals of the 16th century. Prerequisite: junior standing.

**41017 Seventeenth-Century Europe (3)**

This course will analyze those political, economic, social, religious and intellectual factors leading to economic crisis and civil wars in Europe. Prerequisite: junior standing.

**41018 Eighteenth-Century Europe: Age of Revolution (3)**

This course will analyze the many different factors and unresolved crises of the 17th century that led to revolution throughout Europe. Prerequisite: junior standing.

**41020 Nineteenth-Century Europe (3)**

Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism, and foreign policy in Great Britain, France, Prussia and Austria. Prerequisite: junior standing.

**41024 Modern European History, 1914-1945 (3)**

Special attention paid to the two world wars, Bolshevik Revolution, rise of fascism and fate of European Jewry. Prerequisite: junior standing.

**41025 Modern European History: 1945-Present (3)**

Survey of European political, economic, social and cultural developments since 1945. Prerequisite: junior standing.

**41026 Tudor England 1485-1603 (3)**

Early Modern England with emphasis on Renaissance, Reformation, social change and the Tudor monarchs, Henry VIII and Elizabeth. Prerequisite: junior standing.

**41040 History of Germany, 1648-1871 (3)**

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.

**41041 History of Germany, 1871-Present (3)**

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.

**41044 Imperial Russia, 1689-1917 (3)**

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.

**41045 Modern Russia, 1917-Present (3)**

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.

**41049 History of the Balkans: 18th Century-1914 (3)**

Survey of Albanians, Bulgarians, Greeks, Romanians and South Slavs under Ottoman domination and their struggles for national independence. Prerequisite: junior standing.

**41050 History of the Balkans: 1914 -Present (3)**

The Balkans since 1914, including coverage of post-World War II period. Prerequisite: junior standing.

**41051 Politics, Culture and Society of 20th-Century Europe (3)**

Political, social and cultural change in Europe during the 20th century. Topics include violence, war, revolution, economic crises and social and political change. Prerequisite: junior standing.

**41056 History of Colonial America: 1492-1714 (3)**

Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714. Prerequisite: junior standing. This course may be used to satisfy the diversity requirement.

**41057 Eighteenth-Century America: 1714-1789 (3)**

Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution. Prerequisite: junior standing. This course may be used to satisfy the diversity requirement.

**41058 Jefferson-Jackson Era, 1789-1848 (3)**

Study of the founding and development of the American nation, especially the periods of Jefferson and Jackson. Prerequisite: junior standing.

**41060 Comparative Fascism (3)**

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.

**41062 The United States: The Westward Movement (3)**

The process of settlement from its beginnings; consequences for American history. Prerequisite: junior standing.

**41065 Sectional Conflict and Civil War (3)**

Differences within the United States, including the controversy over slavery; the Civil War in all its aspects. Prerequisite: junior standing.

**41066 Reconstruction and the Later South (3)**

Controversy during and after the Civil War as to racial and sectional relationships; the post-Reconstruction compromises and their undoing. Prerequisite: junior standing.

**41070 American Social and Intellectual History 1790-1876 (3)**

Major currents of the period: Social background of the early republic; religious development; impact of the frontier; abolition. Prerequisite: junior standing. This course may be used to satisfy the diversity requirement.

**41071 American Social and Intellectual History, 1876-Present (3)**

Continuation of HIST 41070. Development of social Darwinism, racism, pragmatism, popular arts. Prerequisite: junior standing. This course may be used to satisfy the diversity requirement.

**41074 American Economic History (3)**

Survey of growth and development of American economic and business life from Colonial times to the present. Prerequisite: junior standing.

**41075 War and Society in the United States from 1607 through 1865 (3)**

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.

**41076 War and Society in the United States from 1865 to Present (3)**

An examination of the impact of conflict and the military on 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.

**41079 Migrations to America, 1607 to Present (3)**

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.

**41082 Constitutional History of the United States (3)**

Prerequisite: junior standing.

**41083 U.S. Foreign Relations Through World War I (3)**

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.

**41084 U.S. Foreign Relations From 1920 (3)**

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.

**41087 Progressive America: The United States, 1896-1919 (3)**

Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through World War I. Prerequisite: junior standing.

**41088 New Era Through World War: The United States, 1920-1945 (3)**

Major political, economic, social, cultural and diplomatic events from the New Era of the 1920s through World War II. Prerequisite: junior standing.

**41089 Recent America: The United States, 1945-Present (3)**

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.

**41097 Colloquium: Saints, Monks, and the Medieval Community (3)**

Investigates major religious institutions that shaped medieval European society and the impact on popular piety. Prerequisite: junior standing.

**41112 History of Modern China (3)**

Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of communism. Prerequisite: junior standing.

**41116 History of Japan (3)**

General survey of the development of Japan from a loose confederation of clans to a modern industrial state. Prerequisite: junior standing.

**41129 The Holocaust: The Destruction of European Jewry, 1938-1945 (3)**

Analysis of those political, economic, social and intellectual factors leading to systematic destruction of European Jewry during World War II. Prerequisite: junior standing.

**41131 History of Africa to 1880 (3)**

Prerequisite: junior standing.

**41132 History of Africa, 1880-Present (3)**

Prerequisite: junior standing.

**41135 History of West Africa (3)**

Prerequisite: junior standing.

**41789 The French Revolution and Napoleon (3)**

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.

**42140 The Sixties: A Third World View (3)**

Examines the political, social and cultural upheaval of the 1960s in Latin America, Africa and Asia. Prerequisite: junior standing.

**42141 Comparative Third World Revolutions (3)**

Examinations of 20th-century revolutions in Latin America, Africa and Asia, focusing on ideologies and political leadership. Prerequisite: junior standing.

**42142 Afro-Latin America (3)**

(Cross-listed with PAS 43300). 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.

**42297 Colloquium: China and Japan (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.



**42397 Colloquium: Women in Europe From Antiquity to Renaissance (3)**

This course examines the social, cultural and economic institutions which determined the position of women from antiquity to the 16th 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. This course may be used to satisfy the diversity requirement and the writing-intensive course requirement with approval of major department.

**42497 Colloquium: Women in Modern Europe (3)**

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. This course may be used to satisfy the diversity requirement and the writing-intensive course requirement with approval of major department.

**43097 Colloquium: Medieval Russia (3)**

Political, social, economic and cultural developments from the ninth 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: junior standing.

**43797 Colloquium on Victorian England (3)**

Consideration of distinctive features of Victorian England including class structure, ideas, manners, politics, foreign affairs, empire. Prerequisite: none. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**44297 Colloquium in African History (3)**

This course will deal with some of the major themes of African history. Topics will vary from semester to semester. Prerequisite: junior standing.

**45597 Colloquium in Russian History (3)**

Study of major issues in Russian history through analysis and discussion of the historiography and critical writing. Prerequisite: junior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**45697 Colloquium: Social History of Latin America (3)**

The formation of Latin American societies from the Iberian Conquest to the present. Prerequisite: special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**45797 Colloquium: Comparative Latin American Revolutions (3)**

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: special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**46097 Colloquium: Stalinism (3)**

Focus on Josef Stalin's rise to power and the historiographical debates about the origins, results and legacy of his domestic and foreign policies. Prerequisite: junior standing.

**46597 Colloquium in Twentieth-Century European Diplomacy (3)**

Coverage of important works dealing with major diplomatic issues from origins of World War I to present. Prerequisite: junior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**46897 Colloquium on the Age of Jefferson (3)**

Intensive examination of the problems of a critical period of American history through readings, reports and discussions. Prerequisite: junior standing.

**47597 Colloquium on NATO (3)**

An examination of the historical significance of the Atlantic Alliance from its origins in the late 1940s to the present. Prerequisite: junior standing.

**47697 Colloquium on Post-1945 Europe (3)**

Coverage of the historical literature on Europe's major political, diplomatic, economic and social developments since 1945. Prerequisite: junior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**48097 Colloquium in Twentieth-Century U.S. Foreign Relations (3)**

Covers U.S. diplomatic history from World War I to the present emphasizing bibliography and historiography. Prerequisite: junior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**48697 Colloquium: U.S. Middle Period, 1820-1900 (3)**

Reading, discussion and written reviewing of important works on the period. Prerequisite: junior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**48797 Colloquium in African American History to 1877 (3)**

This colloquium specializes in African American history prior to 1877, with emphasis on historiographical literature of the period. Prerequisite: junior standing.

**48897 Colloquium in African American History Since 1877 (3)**

This colloquium specializes in African American history after 1877, with emphasis on historiographical literature of the period. Prerequisite: junior standing.

**49095 Special Topics in United States History (3)**

(Repeatable for a maximum of 18 credit hours) 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. Prerequisite: junior standing

**49195 Selected Topics: European History Since 1500 (3)**

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.

**49196 Individual Investigation (2-3)**

IP grade permissible. Prerequisite: special approval.

**49199 Senior Honors Project (3-6)**

Thesis or other independent study or creative project. Required of students seeking to graduate with honors in history. IP grade permissible. Prerequisite: special approval (see HONR 40099).

**49295 Special Topics in Global History (3)**

(Repeatable for a maximum of 18 credit hours). 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.

**Hospitality Management (HM)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Hospitality Management (HM)

**13022 Sanitation and Safety Principles and Practices (3)**

Safety and sanitation practices pertinent to food service. Emphasis is on laws, food microbiology, storage practices and accident prevention. Prerequisite: none.

**13023 Techniques of Food Production (5)**

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. Prerequisites: HM 13022 and nutrition and food (NF) majors. Special fee: \$60 flat fee—subject to change.

**13024 Introduction to Hospitality Management (2)**

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. Special fee: \$10 flat fee—subject to change.

**23012 Food Study (3)**

Principles of food preparation and quality evaluation with consideration of nutritive value and retention. One hour of lecture and four hours of lab. (Note: nutrition and dietetics majors should take CHEM 10060, 10061 and 20481; students in other majors should take CHEM 10050 and 10052 as prerequisites for this course.) Prerequisite: NUTR 23511. Special fee: \$33 flat fee—subject to change.

**23030 Lodging Operations (3)**

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.

**33020 Legal Issues in the Hospitality Industry (3)**

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.

**33026 Hospitality Cost Control and Analysis (5)**

Prepares students to analyze and control costs encountered in hospitality operations. Includes computer applications, math drills and simulations. Prerequisites: MIS 24053 and ACCT 23020 and HM 13023.

**33028 Hospitality Purchasing (3)**

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.

**33029 Catering and Banquet Preparation and Service (5)**

Combines theoretical and practical applications of planning, merchandising, costing, producing and serving catered meals. Prerequisite: HM 33026. Special fee: \$25 flat fee—subject to change.

**33035 Hospitality Service Quality Management (3)**

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.

**33036 Club Management (3)**

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.

**33040 Hotel Convention Group Sales and Services (3)**

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.

**33050 Professional Practices in Hospitality Management (1)**

Preparation of student for professional work experiences in hospitality management. Career development and professional workplace issues are addressed. Prerequisite: junior standing.

**41093 Variable Topic Workshop in Hospitality Management (1-3)**

Workshop setting dealing with a topic or topics in hospitality management. Learning experiences are provided in a wide range of areas. S/U grading. Prerequisite: none.

**41095 Special Topics in Hospitality Management (1-4)**

Discussion of a major topic within a specific field of hospitality management. Prerequisite: none.

**41096 Individual Investigation (1-3)**

Independent study in hospitality management. Prerequisite: written special approval from instructor.

**43025 Hospitality Marketing (3)**

Application of marketing principles, practices and theories relevant to hospitality organizations. Case studies drawn from the hospitality industry are incorporated. Prerequisites: HM 13023 and MIS 24163 and MKTG 25010.

**43027 Hospitality Human Resource Management (3)**

Application of human resource management principles, practices, theories and legal issues relevant to hospitality organizations. Hospitality management-focused case studies are incorporated. Prerequisites: HM 33026 and MIS 34180. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**43029 Hospitality Financial Policy (3)**

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.

**43030 Food Service Systems Management (3)**

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.

**43031 Layout and Design of Food Service Operations (3)**

Analysis and planning for the layout and design of commercial food services operations. Includes basic principles of design; space analysis; and equipment use, care selection and layout for food services 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 13023.

**43032 Food Production and Service Management (3)**

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. Prerequisites: HM 23012 and 43030.

**43040 Strategic Lodging Management (3)**

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. Prerequisites: HM 23030 and 33026.

**43043 Hospitality Meetings Management (4)**

Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association and banquets, receptions and annual meetings held in hospitality venues requiring food and beverage and/or lodging. Prerequisites: HM 23030 and 33026.

**43092 Practicum/Hospitality Management (3-6)**

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. Prerequisites: HM 33050 and junior or senior standing.

**Honors College (HONR)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Honors College \(HONR\)](#)

*In addition to the prerequisites, all Honors courses require special approval.*

**10096 Individual Honors Work (1-4)\***

Directed independent study for freshmen in any department. IP grade permissible. Prerequisites: Prior consent of instructor; approval of and preregistration with Honors College.

**10197 Freshman Honors Colloquium I (1-4)**

Required of all honors freshmen in lieu of College English. Stresses exploration, discussion and communication of ideas expressed in works related to theme of colloquium. IP grade permissible. Prerequisite: admitted to the Honors College. This course may be used to satisfy the Kent Core Requirements.

**10297 Freshman Honors Colloquium II (1-4)**

Continuation of HONR 10197. IP grade permissible. Prerequisite: admitted to the Honors College. This course may be used to satisfy the Kent Core Requirements.

**13197 Colloquium: The History of Civilization I (3)**

World history from early human societies through the mid-17th century. Prerequisite: admitted to the Honors College. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**13297 Colloquium: The History of Civilization II (3)**

Continuation of HONR 13197. World history from mid-17th century to the present. Prerequisite: admitted to the Honors College. This course may be used to satisfy the Kent Core Requirement and diversity requirement.

**13397 Colloquium: U.S. History I (3)**

Survey of U.S. history through 1877. Prerequisite: admitted to the Honors College. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**13497 Colloquium: U.S. History II (3)**

Survey of U.S. history since 1877. Prerequisite: admitted to the Honors College. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**13597 Colloquium: The Western Identity (3)**

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.

**15297 Colloquium: American Politics (3)**

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.

This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**15397 Colloquium: World Politics (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**15497 Colloquium: Comparative Politics (3)**

This course introduces the different institutional structures of governance (e.g., parliamentary vs. 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. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**20096 Individual Honors Work (1-4)\***

Directed independent study for sophomores in any department. IP grade permissible. Prerequisites: prior consent of instructor; approval of and preregistration with Honors College.

**20197 Sophomore Colloquium (1-4)**

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. IP grade permissible. Prerequisite: admitted to the Honors College.

**20297 Sophomore Colloquium (1-4)**

See HONR 20197. IP grade permissible. Prerequisite: admitted to the Honors College.

**21197 Colloquium: Principles of Microeconomics (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**21297 Colloquium: Principles of Macroeconomics (3)**

Principles and policies affecting aggregate production, consumption, investment and government expenditures. Includes role of money, the banking system, inflation, unemployment and economic growth. Prerequisites: admitted to the Honors College and HONR 21197 or ECON 22060. This course may be used to satisfy the Kent Core Requirements.

**30096 Individual Honors Work (1-4)**

Directed independent study for juniors in any department. IP grade permissible. Prerequisites: Prior consent of instructor; approval of and preregistration with Honors College.

**30197 Junior Colloquium (1-4)**

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. IP grade permissible. Prerequisite: admitted to the Honors College. Special course fee may be assessed.

**30297 Junior Colloquium (1-4)**

See HONR 30197. IP grade permissible. Prerequisite: admitted to the Honors College.

**30497 Colloquium: International Study (1-4)**

Designed for students preparing for participation in overseas programs sponsored by Center for International and Comparative Programs. Provides basis for future research abroad. IP grade permissible. Prerequisite: admitted to the Honors College.

**35097 Colloquium in Political Science (1-4)**

Intensive study of significant problems in politics. Topic, readings and core research theme vary from semester to semester. Prerequisite: admitted to the Honors College.

**40085 Senior Honors Portfolio (1)**

Construction of a senior portfolio, consisting of a collection of artifacts and a reflective essay interpreting the student's growth during the college years. IP grade permissible. Prerequisite: senior standing.

**40096 Individual Honors Work (1-4)**

Directed independent study for seniors in any department. IP grade permissible. Prerequisites: prior consent of instructor; approval of and preregistration with Honors College.

**40099 Senior Honors Thesis/Project (1-10)**

Thesis or creative project. IP grade permissible. Prerequisites: special approval of department.

**40197 Senior Colloquium (1-4)**

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. IP grade permissible. Prerequisite: admitted to the Honors College.

**40297 Senior Colloquium (1-4)**

See HONR 40197. IP grade permissible. Prerequisite: admitted to the Honors College.

**40497 Colloquium: International Study (1-4)**

See HONR 30497. IP grade permissible. Prerequisite: admitted to the Honors College.  
\*Course ineligible to be repeated for GPA recalculation.

**Horticulture Technology (HORT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Horticulture Technology (HORT)

**Courses offered only at Regional Campuses.****16001 Opportunities in Horticulture (1)**

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.

**26001 Occupational Regulations and Safety (2)**

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 Campus. Corequisites: BSCI 16001 and HORT 16001.

**26010 Arboriculture (3)**

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 Campus. Corequisite: HORT 26011. Prerequisites: BSCI 16001 and HORT 16001.

**26011 Cooperative Work Experience in Tree Care (3)**

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 credit hours in this or a combination of other work experience classes will be allowed. S/U grading; IP grade permissible. Corequisite: HORT 26010.

**26012 Urban Forestry (3)**

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. Prerequisites: HORT 16001 and BSCI 16001.

**26016 Irrigation Design and Maintenance (3)**

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. Prerequisites: HORT 16001 and BSCI 16001.

**26018 Landscape Construction (3)**

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.

**26020 Professional Landscape Management (3)**

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. Prerequisites: BSCI 16001 and HORT 16001.

**26021 Cooperative Work Experience in Landscape Management (3)**

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 credit hours in this or a combination of other work experience will be allowed. S/U grading; IP grade permissible. Corequisite: HORT 26020.

**26030 Turf Grass Management (3)**

Basic principles of turf management. Covers turf equipment and the safe use of equipment commonly found in the turf industry. Lecture two hours; lab three hours weekly; course offered only at the Salem Campus. Corequisite: HORT 26031. Prerequisites: BSCI 16001 and HORT 16001.

**26031 Cooperative Work Experience in Turf Grass Management (3)**

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 credit hours in this or a combination of other work experience classes will be allowed. S/U grading; IP grade permissible. Pre/corequisite: HORT 26030.

**26032 Golf Course Management (3)**

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. Prerequisites: HORT 16001 and 26031 and BSCI 16001.

**26046 Landscape Design I (3)**

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. Prerequisites: HORT 16001 and BSCI 16001 and 26003.

**36014 Plant Propagation and Greenhouse Production (3)**

Asexual/vegetative propagation including anatomical and physical concepts. Techniques covered include cuttings, budding, grafting, layering, dividing and micropropagation. Plant propagation by seeding and plugs shall be 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. Special fee: \$24 flat fee—subject to change.

**36046 Landscape Design II (3)**

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 26046 or 26012 or 26032; and junior or senior standing.



**36018 Landscape Construction II (3)**

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 work applications. Lecture two hours weekly; lab three hours weekly. Prerequisites: 26018; and junior or senior standing.

**36025 Professional Practice in Horticulture (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**36034 Sports Turf Management (3)**

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 a 20 hour service learning component. Prerequisites: HORT 26030; and junior or senior standing.

**36092 Internship in Horticulture (4)**

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 given the subject matter studied. Prerequisites: 6 hours from HORT 26011 and 26021 and 26031 and special approval.

**41096 Individual Investigation in Horticulture (1-3)**

Research under the direction of a HORT faculty/program director/mentor. Investigation of specific horticulture topics that build upon previous concentration areas of study. Prerequisite: junior or senior standing.

**46014 Garden Center and Nursery Production Management (3)**

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. Special fee: \$38 flat fee—subject to change.

**46092 Practicum in Horticulture (3)**

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 past class work. Prerequisites: HORT 36092 and junior or senior standing.

*\*Course ineligible to be repeated for GPA recalculation.*

**Heritage Languages (HRTG)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Heritage Languages (HRTG)

*For placement and credit in heritage foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

*Individual language(s) will be specified in the Schedule of Classes.*

**10101 Elementary I (Variable Language) (4)**

An introduction to a heritage language in the context of the culture of its speakers. Prerequisite: none.

**10102 Elementary II (Variable Language) (4)**

A continuation of the introduction to a heritage language in the context of the culture of its speakers. Prerequisite: HRTG 10101 and special approval.

**20201 Intermediate I (Variable Language) (3)**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: HRTG 10102 and special approval.

**20202 Intermediate II (Variable Language) (3)**

Continuation of HRTG 20201. Prerequisite: HRTG 20201 and special approval.

**30095 Special Topics (1-3)**

(Repeated registration permissible) Topic announced in Schedule of Classes. Prerequisite: special approval.

**Human Services Technology (HST)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Human Services Technology (HST)

**Courses offered only at Regional Campuses.**

**11000 Introduction to Human Services (1)**

A survey of the role of human service technologists, their professional and ethical responsibilities, employment possibilities and

avenues for professional advancement. Prerequisite: none.

**11001 Group Process in Human Services (2)**

The structure and function of groups, focusing on problem solving and communication in human service agencies. Prerequisite: none.

**11002 Survey of Community Resources (3)**

A survey of providers at the federal, regional, state and local levels, including services provided and regulations of private and public agencies. Prerequisite: none.

**21000 Dynamics of Helping Relationship for Human Services Technologist (3)**

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 21092.

**21001 Assessment of Client****Needs in Human Service Organizations (3)**

An introduction to the evaluation of client needs and assessment of client condition. Prerequisite: HST 11001. Corequisites: HST 21000 and 21092.

**21002 Client Advocacy and Case Management in Human Service Organizations (3)**

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.

**21092 Internship in Human Services Technology I (3)\***

Supervised field experience in a human service agency (minimum of 16 hours per week). Joint university-agency supervision. Prerequisite: advisor approval. Corequisites: HST 21000 and 21001.

**21192 Internship in Human Services Technology II (3)\***

Continued supervised field experience in a human services agency (minimum 16 hours per week). Joint university-agency supervision. Prerequisite: HST 21092 and special approval. Corequisite: HST 21002.

*\*Course ineligible to be repeated for GPA recalculation.*

**High Technology Manufacturing Technology (HTMT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > High Technology Manufacturing Technology (HTMT)

**13600 Electronic Materials (2)**

Introduction to electronic properties and structure of semiconductor materials, micro-machines, sensors and packaging materials. Prerequisite: CHEM 10060 and 10062.



**13601 Introduction to Photonics and Fiber Optics (3)**

Introduction to fiber optics and photonic components/systems, devices and optical communications. Prerequisite: special approval.

**13602 Introduction to Lasers (3)**

Introduction to laser theory, operation, and operating practices and its output characteristics. Usage of low-power helium-neon lasers and safety considerations. Prerequisite: special approval. Special fee: \$45 flat fee—subject to change.

**13603 Lasers and Electro-Optic Components and Devices (3)**

The laser technology tools, special purpose devices and measuring tools are discussed. Prerequisite: special approval. Special fee: \$45 flat fee—subject to change.

**23600 Semiconductor Manufacturing I (3)**

Study of semiconductor manufacturing. An emphasis on "clean room" operations will be studied. Topics include oxidation, photolithography, photomasking, etching, doping, deposition, metallization and packaging. Prerequisite: HTMT 13600. Special fee: \$60 flat fee—subject to change.

**23601 Semiconductor Manufacturing II (3)**

An overview knowledge of wafer fabrication operations is the goal. A team project will require complete technical report emphasizing quality control, integration of electronics, etc. Prerequisite: HTMT 23600. Special fee: \$60 flat fee—subject to change.

**23602 Photolithography in IC Fabrication (2)**

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.

**23603 Light Sources and Wave Optics (3)**

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.

**23604 Vacuum System Technology (2)**

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.

**23606 Power Radio Frequency (2)**

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. Prerequisites: PHY 12202 and EERT 12010. Special fee: \$60 flat fee—subject to

change.

**23607 Laser Technology: Applications (3)**

Study and application of laser technology in industry, manufacturing and medicine, including laser safety and hazard evaluation. Prerequisite: sophomore standing.

**23695 Special Topics (1-3)\***

(Repeated registration permissible) Special topics in lasers, photonics or semiconductor technology. Topics announced when scheduled. Prerequisite: sophomore standing.

*\*Course ineligible to be repeated for GPA recalculation.*

*\*\*Courses offered only at Regional Campuses.*

**Information Architecture and Knowledge Management (IAKM)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Information Architecture and Knowledge Management (IAKM)

**41096 Individual Investigation in Information Architecture, Information Use or Knowledge Management (1-3)**

Research or individual investigation for baccalaureate-level students at or above the junior level. IP grade permissible. Prerequisites: written special approval of instructor.

**Interior Design (ID)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Interior Design (ID)

**14501 Studio Problems in Interior Design I (4)**

Studio problems in interior design is a course for the beginning student whose interest is in interior space design. Prerequisite: TECH 11083. Special fee: \$80.00 flat fee—subject to change.

**14512 Interior Design Graphics I (3)**

Studio based course introducing concepts of architectural drawing and sketching techniques including plan, elevation, section and perspective. Prerequisite: interior design (ID) major. Special fee: \$60.00 flat fee—subject to change.

**24502 Studio Problems in Interior Design II (4)**

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. Prerequisites: interior design (ID) major and ID 14501. Special fee: \$80.00 flat fee—subject to change.

**24510 Textiles in the Built Environment (2)**

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

**24511 Housing in Today's Society (3)**

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. Special fee: \$30.00 flat fee—subject to change.

**24513 Survey History of Interiors (4)**

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. Not open to interior design (ID) majors.

**24522 Interior Design Graphics II (3)**

Studio based course continuation of ID 14512. Exploration of color media and graphic representation of interior design materials and environments. Prerequisites: ID 14501 and 14512 and 24502. Special fee: \$60.00 flat fee—subject to change.

**34503 Studio Problems in Interior Design III (4)**

Special problems concerning design of small- to moderate-size commercial interior space. Prerequisite: ID 24502. Special fee: \$80.00 flat fee—subject to change.

**34504 Studio Problems in Interior Design IV (4)**

Introduction to large-scale planning. Prerequisites: ARCH 10101 and ID 34503 and pre/corequisite: PHY 13001. Special fee: \$80.00 flat fee—subject to change.

**34512 Home Furnishings (3)**

Practical and aesthetic study of interiors. Selection and arrangement of furnishings. Prerequisite: none. Special fee: \$7.00 flat fee—subject to change.

**34515 Computer Aided Design for Interior Designers (3)**

Introduction to application of computer drawing and drafting techniques used in interior design. Study of 2-D and 3-D techniques as well as symbol libraries. Prerequisites: interior design (ID) major. Corequisite: ID 24502.

**34522 Methods and Materials for Interior Design (3)**

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. Special fee: \$60.00 flat fee—subject to change.

**41093 Variable Title Workshop in Interior Design (1-4)**

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.

**41095 Special Topics in Interior Design (1-4)**

Discussion of a major topic or issue within the profession of interior design. Repeat registration permitted. Prerequisite: interior design (ID) major.

**41096 Individual Investigation in Interior Design (1-3)**

Independent study of interior design and related topics under the guidance of a faculty member. Prerequisite: interior design (ID) major.

**44505 Studio Problems in Interior Design V (2)**

Introduction to principles of historic design focusing on hands-on and on-site design techniques. For interior design majors only. Prerequisites: ID 34504 and 44534. Corequisite: ID 44535. Special fee: \$40.00 flat fee—subject to change.

**44506 Studio Problems in Interior Design VI (4)**

Special problems concerning the design of large-scale commercial environments. Prerequisites: TECH 31015 and ID 44505. Corequisite: ARCH 30501. Special fee: \$80.00 flat fee—subject to change.

**44507 Studio Problems in Interior Design VII (4)**

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. Prerequisites: ID 44506 and ARCH 30501. Special fee: \$80.00 flat fee—subject to change.

**44512 Historic Furnishing Textiles (2)**

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. Prerequisites: ID 44534 and 44535. Special fee: \$40.00 flat fee—subject to change.

**44523 Interior Design Professional Practice (2)**

A study of the business and professional practices of interior designers. Prerequisite: ID 34504.

**44524 Anglo-American Domestic Interiors, Early Colonial Period (3)**

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.

**44525 Lighting Application in Interior Spaces (3)**

Design application of lighting technology for various interior spaces. Field trips to study lighting installations. Prerequisite: ID 34503. Special fee: \$60.00 flat fee—subject to change.

**44526 Lighting Design in Historic Spaces (3)**

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. Prerequisites: ID 44505 and 44525 and ARCH 30501. Special fee: \$51.00 flat fee—subject to change.

**44527 Study Tours (1-10)**

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.

**44534 History of Interiors to 1600 (4)**

A chronological study of housing and furnishings from civilization to the 15th century. Prerequisites: ID 34504; and ARTH 22006 and 22007; or ARCH 10011 and 10012; and special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department. Special fee: \$80.00 flat fee—subject to change.

**44535 History of Interiors—1600 to Present (4)**

A chronological study of housing and furnishings from the Renaissance to the Victorian Period—16th to 19th centuries—and 20th century. Prerequisite: ID 44534. Special fee: \$80.00 flat fee—subject to change.

**44592 Practicum in Interior Design (2-10)**

(Repeatable for a total of 10 hours) 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 credit hours, not to exceed 10 credit hours. S/U grading. Prerequisites: ID 34504 and 44523 and MKTG 25010. Special fee: \$20/credit hour—subject to change.

**Industrial Engineering and Related Technologies (IERT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Industrial Engineering and Related Technologies (IERT)

**Courses offered only at Regional Campuses.**

**12005 Applications in Computer-Aided Design (2)**

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.

**21096 Individual Investigation in Systems/Industrial Engineering Technology (1-4)\***

Independent, in-depth research of a systems/industrial engineering technology topic supervised and coordinated by an engineering technology faculty member. Prerequisite: special approval.

**22000 Statistical Process Control (4)**

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.

**22001 Motion and Time Study (3)**

Motion economics, SPC, activity charts, methods improvement, use of standard data method of making studies, computerized line balancing. Prerequisite: none.

**22003 Supervision and Labor Relations (5)**

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.

**22004 Facilities Engineering (2)**

Principles of facilities engineering to meet production needs. Applications of material-handling devices, plant layout drawings, templates, models and FMS systems. Prerequisite: none.

**22005 Production and Inventory Control (2)**

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.

**22006 Economic Decision Analysis (3)**

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.

**22007 Cooperative Work Experience (2)\***

(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: special approval.

**22008 Taguchi Process Improvement (3)**

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.

**22010 Computer Integrated Manufacturing (3)**

Planning, developing and implementing a strategy to control and coordinate all the engineering, production and business operations within a manufacturing enterprise. Prerequisite: none.

**22095 Special Topics (1-3)\***

(Repeated registration permissible) Special topics in systems/industrial engineering technology. Prerequisite: special approval.

\*Course ineligible to be repeated for GPA recalculation.

**Integrated Health Studies (IHS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Integrated Health Studies (IHS)

**10000 Careers in Health Sciences and Human Services (3)**

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.

**40091 Seminar for Practicum in Integrated Health Studies (2)**

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. Corequisite: IHS 44092.

**44010 Research Design and Statistical Methods in the Health Professions (3)**

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.

**44091 Professional Seminar in Integrated Health Studies (3)**

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. Prerequisites: senior standing and special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**44092 Practicum in Integrated Health Studies (3-10)**

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. S/U grading; IP grade permissible. Prerequisites: integrated health studies (IHS) majors and senior standing and program special approval. Corequisite: IHS 40091.

**Integrated Life Sciences (ILS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Integrated Life Sciences (ILS)

*The courses listed below have been developed for the six-year B.S./M.D. program offered in conjunction with the Northeastern Ohio Universities College of Medicine; enrollment is limited to students admitted to that program.*

**21091 Integrated Life Sciences Seminar I (2 Each)\***

(Repeatable for a total of 4 credits) Seminar for first-year students in Kent State/NEOUCOM program to provide correlation of natural sciences, social sciences and humanities with medical sciences. S/U grading. Prerequisite: integrated life sciences (ILS) major.

**21092 ILS Seminar II (2)**

Seminar for first-year students in Kent State/NEOUCOM program to provide correlation of natural sciences, social sciences and humanities with medical sciences. S/U grading. Prerequisite: ILS 21091 and integrated life sciences (ILS) major.

**30392 Psychological Helping Skills for Medicine (3)**

Basic strategies for helping persons in crisis. Includes guided self-exploration of attitudes, values and personality styles. IP grade permissible. Prerequisite: integrated life sciences (ILS) major.

**32091 Integrated Life Sciences Seminar III (2)**

(Repeatable for a total of 4 credits) Continuation of ILS 21092. S/U grading. Prerequisites: ILS 21091 and 21092 and integrated life sciences (ILS) major.

**32092 Integrated Life Sciences Seminar IV (2)**

Continuation of ILS 32091. S/U grading. Prerequisites: ILS 21091 and 21092 and 32091 and integrated life sciences (ILS) major.

**32592 Sociological Perspectives in Public Health (3)**

Sociological phenomena of public health through research/theory and field research experience consisting of participatory and nonparticipatory experiences in areas related to medical practice but not associated with traditionally legitimated medical curricula. IP grade permissible. Prerequisite: integrated life sciences (ILS) major.

**40392 Practicum in Medical Psychology (3)**

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. IP grade permissible. Prerequisite: integrated life sciences (ILS) major.

**42591 Medical Sociology Research Skills (2)**

Formulation of community health-related research problem, theoretical concepts, techniques of data collection and analysis. Prerequisite: integrated life sciences (ILS) major.

**42592 Medical Sociology Practicum (3)**

Application of sociological research designs and methods to problems in medical sociology through field research and report on a community health-related research problem. IP grade permissible. Prerequisite: integrated life sciences (ILS) major.

**49993 Human Values in Medicine (1-5)**

Academic credit for successful completion of offerings of Human Values in Medicine program of Northeastern Ohio Universities College of Medicine. S/U grading. Elective credits only. Prerequisite: integrated life sciences (ILS) major.

**Italian (ITAL)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Italian (ITAL)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

**15201 Elementary Italian I (4)**

An introduction to the Italian language in the context of Italian culture. Prerequisite: none.

**15202 Elementary Italian II (4)**

A continuation of the introduction to the Italian language in the context of Italian culture. Prerequisite: ITAL 15201.

**15204 Basic Conversational Italian I (2)**

Exposure to basic grammar and to current Italian useful to travelers. Not applicable to fulfillment of foreign language requirement. Prerequisite: special approval.

**15205 Basic Conversational Italian II (2)**

Continuation of ITAL 15204. Prerequisite: ITAL 15204.

**25201 Intermediate Italian I (3)**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: ITAL 15202.



**25202 Intermediate Italian II (3)**

Continuation of ITAL 25201. Prerequisite: ITAL 25201.

**25209 Field Study (1-6)**

(Repeatable for a total of 6 hours) For residence and/or field research in an Italian-speaking community. Prior to registering for this course, student must obtain departmental special approval. IP grade permissible. Prerequisite: special approval.

**35211 Italian Composition and Conversation I (3)**

Study and practice of written and oral Italian with emphasis on acquisition of written and oral proficiency in the language. Prerequisite: ITAL 25202.

**35213 Italian Composition and Conversation II (3)**

Advanced practice in speaking and writing the Italian language. Prerequisite: ITAL 35211.

**35331 Early Italian Literature (3)**

A survey of Italian literature from its medieval origins to the Baroque period. Prerequisite: ITAL 35211. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**35332 Recent Italian Literature (3)**

This course surveys the major movements and authors from the Baroque period through the 20th century. Prerequisite: ITAL 35211. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**35421 Italian Civilization (3)**

Lectures, readings, oral and written reports on outstanding features of the culture and civilization of Italy. Prerequisite: ITAL 25202.

**35597 Colloquium (3)**

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: special approval.

**45093 Variable Title Workshop in Italian (1-6)**

Workshops individually designed to provide instruction and training in specific areas of Italian studies. S/U grading. Prerequisite: departmental special approval.

**45096 Individual Investigation (1-3)**

(Repeatable for a total of 6 hours) 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. IP grade permissible. Prerequisites: ITAL 25202 and junior standing and special approval.

**45356 Dante (3)**

This course studies Dante's Divine Comedy in its entirety (Inferno, Purgatory, and Paradise) in the original language. Prerequisite: 6 hours of Italian (ITAL) at the 30000 level.

**Information Technology for Administrative Professionals (ITAP)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Information Technology for Administrative Professionals (ITAP)

**16605 Introduction to Operating Systems and Networking Technology (3)**

(Cross-listed with COMT 11005) Lab-oriented survey of desktop/network OS essentials, including file/disk management, system tools utilization, resource sharing and introductory network concepts. Prerequisite: none.

**16620 Word Processing I (3)**

Builds expertise in creating business documents applying the basic features of popular word processing software. Emphasis on hands-on experience. Lecture two hours, laboratory two hours. Prerequisite: none.

**16621 Word Processing II (3)**

Design and create documents by using advanced features of word processing software. Lecture two hours, laboratory two hours. Prerequisite: ITAP 26620.

**16625 Business Presentations (2)**

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 one hour, laboratory two hours. Prerequisite: none.

**16636 Data Management for Administrative Professionals (3)**

Introduction to the role of data and its management and evolution to information and knowledge in business environments. Prerequisite: none.

**16639 Database Applications (3)**

Concepts, terminology and use of current database software to manage and retrieve business information. Emphasis on hands-on experiences. Lecture two hours, laboratory two hours. Prerequisite: none.

**16649 Database Applications for Medical Billing (1)**

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) majors.

**16650 Systems Studies for Medical Billing and Coding (1)**

Overview course to link knowledge of body systems with coding procedures in medical facilities. Corequisite: ITAP 26651 or HED 14020.

**16680 Computer Keyboarding (1)**

Basic keyboarding course using computers for students having no previous keyboarding instruction or a speed of less than 30 wpm. To pass the course, students must keyboard above 30 wpm for three minutes with no more than three errors. Prerequisite: none.

**26611 Spreadsheet Applications (3)**

Use of electronic spreadsheets from beginning to advanced applications that may prepare for software certification. Lecture two hours, laboratory two hours. Prerequisite: none.

**26613 Machine Transcription (3)**

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.

**26622 Desktop Publishing I (3)**

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 two hours, laboratory two hours. Prerequisite: ITAP 16620.

**26623 Desktop Publishing II (3)**

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 one hour, laboratory four hours. Prerequisite: ITAP 26622.

**26635 Administrative Resource Management (3)**

Explores how office professionals can apply resource management skills to the areas of space/workflow, forms/budgetary control, staff and materials/supplies. Prerequisite: none.

**26636 Project Management for Administrative Professionals (1)**

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 one-half hour, laboratory one hour. Prerequisite: none.

**26637 Specialized Machine Transcription (3)**

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.

**26638 Business Communications (3)**

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.

**26650 Medical Billing Procedures (3)**

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 two hours, laboratory two hours. Prerequisite: none.

**26651 Medical Billing Terminology (2)**

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.

**26655 ICD Coding (3)**

Basic medical coding using the current version of the ICD classification system and nomenclature. Prerequisite: ITAP 26651 or HED 14020.

**26656 CPT Coding (3)**

Introduction to coding rules for the CPT and Level II coding system, incorporating and applying ICD rules to code patient services. Prerequisite: ITAP 26655.

**26691 Seminar for Administrative Professionals (2)\***

Refines job search strategies, integrates coursework with realistic office settings, presents interpersonal/ethical issues and provides outreach activities, emphasizing the total quality management environment. Prerequisites: sophomore standing.

**26692 Internship for Administrative Professionals (1-3)\***

(Repeatable for a total of 4 hours) Supervised field experience of 10 hours per week paid or seven hours per week unpaid in a business environment functioning as an administrative professional. Prerequisites: sophomore standing, 2.00 GPA or better in the major. Special approval required.

**26695 Special Topics in Information Technology for Administrative Professionals (1-3)\***

(Repeated registration permissible) Special topics in information technology topics for administrative professionals. Prerequisite: special approval.

**26696 Individual Investigation: Information Technology for Administrative Professionals (1-3)\***

Independent, in-depth research of an ITAP topic supervised and coordinated by an ITAP faculty member. Prerequisites: 12 credit hours of ITAP courses and special approval of a full-time ITAP faculty member.

*\*Course ineligible to be repeated for GPA recalculation.*

*\*\*Courses offered only at Regional Campuses.*

**Instructional Technology (ITEC)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Instructional Technology (ITEC)

**19525 Educational Technology (3)**

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, laboratory experiences, completion of comprehensive project. Prerequisite: minimum grade of C (2.0) in CULT 29535 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).

**37400 Introduction to Educational Media (2)**

Principles and techniques in the selection and utilization of educational media in teaching/learning situations. Prerequisite: none.

**40093 Variable Title Workshop in Educational Media (1-4)**

Variable topic workshop designed to respond to curriculum trends and issues and specialized needs. S/U grading. Prerequisite: special approval.

**47402 Organization and Administration of Educational Media Programs and Centers (3)**

The planning, organizing, administering and evaluating of educational media programs and

centers for schools, higher education, industry or churches. Prerequisite: none.

**47403 Instructional Design (3)**

Enables participants to design instructional sequences based upon a systematic approach and incorporating media as integral components. Prerequisite: none.

**47411 Designing Visuals for Instruction (3)**

Investigation of historical, cultural and aesthetic dimensions of instructional visual design. Focus on design of instructional visuals across media, including print, video and computer-based technology. Presentations, laboratory activities. Prerequisite: none.

**47413 Digital Video in Education (3)**

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 and export productions to tape/CD. Prerequisite: none.

**47427 Technology and Learning (3)**

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.

**47430 Computer Applications in Education (3)**

Preparation for use of computers effectively in a variety of educational settings. Students should have some expertise with computers. Focus on advanced applications in education. Macintosh and Windows. Prerequisite: none.

**47495 Special Topics: Educational Media (1-5)**

Specialized offering in response to emerging or selected program needs in educational media and instructional design. Prerequisite: none.

**47496 Individual Investigation in Educational Media (1-5)**

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a faculty member. Prerequisite: none.

**Japanese (JAPN)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Japanese (JAPN)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

**15101 Elementary Japanese I (5)**

Introduction to modern standard Japanese in the context of Japanese culture. Prerequisite: none.



**15102 Elementary Japanese II (5)**

A continuation of the introduction to modern standard Japanese in the context of Japanese culture. Prerequisite: JAPN 15101.

**25201 Intermediate Japanese I (5)**

Continued development of speaking, listening, reading and writing skills, using a variety of cultural materials. Prerequisite: JAPN 15102.

**25202 Intermediate Japanese II (5)**

Continuation of JAPN 25201. Prerequisite: JAPN 25201.

**30095 Special Topics (3)**

Topic to be announced in Schedule of Classes. Prerequisite: special approval.

**35101 Advanced Intermediate Japanese I (5)**

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.

**35102 Advanced Intermediate Japanese II (5)**

Continuation of JAPN 35101. Prerequisite: JAPN 35101.

**45201 Advanced Japanese I (5)**

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.

**45202 Advanced Japanese II (5)**

Continuation of JAPN 45201. Prerequisite: JAPN 45201.

**45301 Business Japanese (3)**

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette. Prerequisites: JAPN 35102 and special approval.

**45421 Japanese Culture (3)**

Explores key aspects of traditional and contemporary Japanese culture. Taught in English; no knowledge of Japanese necessary. Prerequisite: none.

**45591 Variable Topic Seminar in Japanese (3)**

(Course may be repeated for a maximum of 9 credit hours) Seminar on 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.

**Journalism and Mass Communication (JMC)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Journalism and Mass Communication (JMC)

**12001 Elementary Photography (2)**

Introduction to fundamentals and techniques of still and motion picture photography. Terminal course for students who do not have photography requirements. Prerequisite: none. Special fee: \$30 flat fee—subject to change.

**20001 Media, Power and Culture (3)**

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. This course may be used to satisfy the Kent Core Requirement and the diversity requirement.

**20003 Introduction to Mass Communication (3)**

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. Prerequisites: journalism and mass communication (JMC) major.

**20004 Media Writing (3)**

Introduces students to a 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. Prerequisites: 2.75 overall GPA and pre/corequisite: JMC 20003 with a grade of C- (1.7) or better and a journalism and mass communication (JMC) or integrated language arts (INLA) major. Special fee: \$30 flat fee—subject to change.

**20005 Fundamentals of Media Messages (3)**

Working with messages for print, broadcast, electronic and new media outlets. Course may not be taken for credit or applied toward any requirements by a journalism and mass communication major. Prerequisite: communications studies (COMM) major.

**20006 Multimedia Techniques (3)**

Introduction to basic elements of multimedia journalistic storytelling, including the creation of audio, video, slideshows and multimedia packages for distribution via the Internet. Prerequisites: 2.75 overall GPA; JMC 20003; and journalism and mass communication (JMC) major.

**20007 Media Information Gathering (3)**

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.

**20008 Audience Analysis and Research (3)**

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.

**21001 Principles of Advertising (3)**

Advertising history, purposes, techniques, media and research; analysis of functions of advertising organizations. Prerequisite: none.

**22000 Photography Basics (1)**

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; and integrated language arts (INLA) or electronic media (ELMD) or news (NEWS) major. Special fee: \$20 flat fee—subject to change.

**22001 Photography (3)**

(Cross-listed with VCD 28000) Basic camera and darkroom techniques to provide a better understanding of photography as a creative and journalistic skill. Prerequisite: 2.75 overall GPA; and art education (ARTE) or visual journalism (VJNL) major. Special fee: \$55 flat fee—subject to change.

**22002 Videography Basics (1)**

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: 2.75 overall GPA; and journalism and mass communication (JMC) or integrated language arts (INLA) or visual communication design (VCD) major. Special fee: \$20 flat fee—subject to change.

**22003 Videography Basics II (1)**

Emphasis on video editing for broadcast news and electronic media production applications using computer video editing skills. Prerequisite: 2.75 overall GPA; and JMC 22002 with a grade of C- (1.7) or better and journalism and mass communication (JMC) major.

**22004 Visual Storytelling (3)**

Technical and digital skills needed to produce photos that communicate. Course will stress narrative work, detailed caption information and reporting. Prerequisites: JMC 22001 and journalism and mass communication (JMC) major.

**23001 Introduction to Graphic Communications (2 or 3)**

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. Special fee: \$15 flat fee—subject to change.

**23030 Basic Electronic Media Video Production (3)**

Theoretical and practical application of program production for video. Prerequisites: 2.75 overall GPA and JMC 20003 and 22002 both with a grade of C- (1.7) or better; and JMC 20004 with a grade of B- (2.7) or better; and a score of at least 70 percent on the Grammar, Usage and Punctuation (GUP) test; and a journalism and mass communication (JMC) major.

**23031 Basic Electronic Media Audio Production (3)**

Theoretical and practical application of program production for audio production. Prerequisites: 2.75 overall GPA and JMC 20003 and 22002 both with a grade of C- (1.7) or better; and JMC 20004 with a grade of B- (2.7) or better; and a score of at least 70 percent on the Grammar, Usage and Punctuation (GUP) test; and a journalism and mass communication (JMC) major. Special fee: \$30 flat fee—subject to change.

**26001 Newswriting (3)**

Theory and practice in writing basic print and electronic news and feature stories. Prerequisites: 2.75 overall GPA and a grade of B- (2.7) or better in JMC 20004 and a score of at least 70 percent of the Grammar Usage and Punctuation (GUP) test and a journalism and mass communication (JMC) or integrated language arts (INLA) major. Special fee: \$30 flat fee—subject to change.

**26007 Print Beat Reporting (4)**

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 a journalism and mass communication (JMC) major. Special fee: \$40 flat fee—subject to change.

**26008 Broadcast Beat Reporting (4)**

Writing news, developing sources and beats, meeting deadlines as they relate to electronic

media. Includes reporting campus news for daily broadcasts. Prerequisites: 2.75 overall GPA and JMC 22002 and 26001 both with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. Special fee: \$80 flat fee—subject to change.

**28001 Principles of Public Relations (3)**

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.

**30004 Writing for Electronic Media (2)**

Application of standard writing styles and formats in the electronic media. Writing practice in commercials, continuity, promotions and introductory scriptwriting techniques. Prerequisites: 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 a core of at least 70 percent on the Grammar Usage and Punctuation (GUP) test.

**30030 Mass Media Research (3)**

Analysis of mass media research emphasizing quantitative social science inquiry and media applications leading to practical and critical understanding of research. Prerequisites: 2.75 overall GPA and JMC 20003 with a grade of C- (1.7) or better and MATH 11009 and a journalism and mass communication (JMC) major.

**30034 Programming for Electronic Media (3)**

Background analysis of radio, TV, cable and Internet programming and the relationship to audience needs, interests, expectations and audience measurement procedures. Prerequisites: 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 a score of at least 70 percent on the Grammar Usage and Punctuation (GUP) test.

**31002 Advertising Copywriting (3)**

Examination and practice in various forms of advertising copywriting and their applications. Prerequisites: 2.75 overall GPA; and a grade of B- (2.7) or better in JMC 20004; and JMC 21001 and 31011 with a grade of C- (1.7) or better; and a journalism and mass communication (JMC) major; and a score of at least 70 percent on the Grammar Usage and Punctuation (GUP) test.

**31003 Advertising Media Planning (3)**

Analysis, selection and scheduling of advertising media. Examination of advertising research technique and application. Prerequisites: 2.75 cumulative GPA; and a grade of B- (2.7) or better in JMC 20004; and JMC 20008 and 21001 with a grade of C- (1.7) or better; and a journalism and mass communication (JMC) major; and a score of at least 70 percent on the Grammar Usage and Punctuation (GUP) test.

**31011 Creative Advertising Strategies (3)**

Advertising 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. Prerequisites: 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.

**32001 Photojournalism I (3)**

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 a grade of B- (2.7) or better in JMC 20004; and JMC 22001 with a grade of C- (1.7) or better 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 percent on the Grammar Usage and Punctuation (GUP) test. Special fee: \$55 flat fee—subject to change.

**32002 Photojournalism II (3)**

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. Special fee: \$55 flat fee—subject to change.

**32003 Photo Technology (3)**

(Cross-listed with VCD 38003) Photographic materials and processes. Emulsion sensitometry (applied as the "Zone System"). Photographic lens testing, etc. Camera and hand-held exposure meter needed. Prerequisites: JMC 22001 and journalism and mass communication (JMC) major. Special fee: \$45 flat fee—subject to change.

**32004 Advanced Photography (3)**

(Cross-listed with VCD 38004) Use of specialized equipment, materials and techniques. Student furnishes own view camera. Special equipment furnished. Prerequisites: JMC 22001 and journalism and mass communication (JMC) major. Special fee: \$45 flat fee—subject to change.

**32005 Video for Still Photography (3)**

Teaches video skills for photojournalists, including interviewing, establishing a narrative, editing, and how video is paired with the written story. Prerequisite: 2.75 overall GPA; and JMC 20004 with a grade of B- (2.7) or better; JMC 22004 with a grade of C- (1.7) or better; and a score of at least 70 percent on the Grammar, Usage and Punctuation (GUP) test; and journalism and mass communication (JMC) major.

**32008 Photo-Design Techniques (3)**

(Cross-listed with VCD 38008) Use of unusual photographic materials and techniques in design of images for many purposes. Prerequisite: JMC 22001. Special fee: \$45 flat fee—subject to change.

**33024 Performance for Electronic Media (3)**

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. Special fee: \$45 flat fee—subject to change.

**33032 Audio Studio Production (3)**

Production of in-studio audio programming units, with laboratory unit required as part of course. Prerequisites: 2.75 overall GPA and JMC 23031 with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. Special fee: \$60 flat fee—subject to change.

**33033 Audio Field Production (3)**

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 70 percent or better on the Grammar Usage and Punctuation (GUP) test. Special fee: \$60 flat fee—subject to change.

**33036 Basic Media Engineering (3)**

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. Preparation for SBE operators' certification exam. Prerequisites: 2.75 overall GPA and MATH 11009 and JMC 23030 and 23031 both with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major and a score of at least 70 percent on the Grammar Usage and Punctuation (GUP) test.

**33042 Video Studio Production (3)**

Study of producing and directing various types of video studio programs. Two hours lecture, two hours lab. Prerequisites: 2.75 overall GPA and JMC 23030 and 30004 both with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. Special fee: \$60 flat fee—subject to change.

**33043 Video Field Production (3)**

Producing programs and packages with portable video equipment outside the studio. Editing program material. Two hours lecture, three hours lab. Prerequisites: 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 percent of the Grammar Usage and Punctuation (GUP) test. Special fee: \$60 flat fee—subject to change.

**33092 Radio-Television Operations (1-3)**

(Repeatable up to 3 credit hours). Performance of assigned activities in radio or television under faculty supervision. S/U grading. Prerequisites: 2.75 overall GPA and JMC 20003 with a grade of C- (1.7) or better and sophomore standing and special approval.

**34038 Media Sales and Sales Management (3)**

Selling techniques in electronic and print media; sales policies, procedures; rate card structure, sales proposals and related promotional aspects. Prerequisites: 2.75 overall GPA and JMC 30034 or 31003 either with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major.

**34050 Promotions for Electronic Media (3)**

Fundamentals and latest trends in broadcast and cable promotion, including branding, advertising and marketing. Prerequisites: JMC 20008 and journalism and mass communication (JMC) major.

**36005 Copyediting (3)**

Improving the writing of other journalists and writing headlines. Intensive review of AP Style and grammar. Prerequisite: 2.75 overall GPA and JMC 26001 with a grade of C- (1.7) or better. Special fee: \$30 flat fee—subject to change.

**38002 Public Relations Case Studies (3)**

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. Prerequisites: 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 percent on the Grammar Usage and Punctuation (GUP) test.

**40002 Reporting for Mass Media (3)**

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 overall GPA and special approval. Special fee: \$30 flat fee—subject to change.

**40003 Editing for Mass Media (3)**

Theory and practice in copy editing, headline writing, and editing photographs and information graphics for print and online publications. Hours do not count toward degree. Prerequisite: 2.75 overall GPA and special approval. Special fee: \$30 flat fee—subject to change.

**40004 Computer Assisted Reporting (3)**

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: JMC 26007 or 26008 either with a grade of C- (1.7) or better. Special fee: \$30 flat fee—subject to change.

**40005 Feature Writing (3)**

Researching, writing and placement of feature stories in publications. Prerequisites: JMC 26007 with a grade of C- (1.7) or better. Special fee: \$30 flat fee—subject to change.

**40006 Law of Mass Communication (3)**

Libel and slander; privacy, copyright, obscenity; regulation of advertising, broadcasting and corporate speech; access to government; legal problems of new media. Prerequisites: journalism and mass communication (JMC) major and senior standing and special approval needed from department.

**40007 Reviewing the Arts (2)**

Reviewing and criticizing of performing, visual and literary arts. Emphasis on books, film, TV and theatre. Prerequisites: 2.75 overall GPA and a grade of B- (2.7) or better in JMC 20004 or 26001 with a C- (1.7) or better and junior or senior standing.

**40008 History of American Mass Communication (3)**

Evolution of the American mass communication/media from beginning to present day. Prerequisite: junior or senior standing.

**40009 Comparative Media Systems (3)**

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.

**40010 Ethics and Issues in Mass Communication (3)**

Ethical problems and issues in mass communication within a framework of basic theories, functions and social roles of the mass media. Prerequisites: 2.75 overall GPA and a journalism and mass communication (JMC) major and senior standing and at least 18 hours in JMC courses with a grade of C- (1.7) or better, including a grade of B- (2.7) or better in JMC 20004 and a score of at least 70 percent on the Grammar Usage and Punctuation (GUP) test. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**40012 Online Journalism (3)**

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 either with a

grade of C- (1.7) or better. Special fee: \$30 flat fee—subject to change.

### **40013 Television Sports Production (3)**

A comprehensive study of the production of live action television sports coverage. Prerequisites: 2.75 cumulative GPA and sophomore, junior or senior standing and journalism and mass communication (JMC) major.

### **40015 Media Management (3)**

Exploring management issues unique to media organizations and the impact of those issues on the organization's structure, economics, markets and employees. Prerequisites: 2.75 overall GPA and a journalism and mass communication (JMC) major and senior standing and a score of at least 70 percent on the Grammar Usage and Punctuation (GUP) test.

### **40016 Law of Advertising and Public Relations (3)**

Regulation of advertising and corporate speech, first amendment, libel and privacy and legal problems of new media. Prerequisites: 2.75 overall GPA and 18 hours of JMC courses all with a grade of C- (1.7) or better; JMC 31002 or 31003 or 38002 with a grade of C- (1.7) or better; and advertising (ADV) or public relations (PR) major.

### **40020 Audio and Still Photo Production (3)**

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. Prerequisites: minimum C- (1.7) in JMC 22001 and journalism and mass communication (JMC) major and junior or senior standing.

### **40022 Film As Communication (3)**

Study of the relationship of television and theatre films to the mass audience in terms of components and effects. Prerequisites: 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.

### **40023 Non-traditional Journalism (3)**

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. Prerequisites: minimum C- (1.7) in JMC 26007 and journalism and mass communication (JMC) major and junior or senior standing.

### **40027 Managing Media Diversity (3)**

Aspects of diversity and how it changes our environment with emphasis on the field of mass communication. Prerequisite: none.

### **40030 Collaborative Online Producing (3)**

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.

Prerequisites: minimum C- (1.7) in JMC 40012 and journalism and mass communication (JMC) major.

### **40034 Advanced Electronic Media Programming (2)**

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.

### **40035 Television Graphics (3)**

Basic design, theory and technique in creating and preparing TV and video graphics. Prerequisites: journalism and mass communication (JMC) major and junior or senior standing.

### **40036 Non-linear Video Editing (3)**

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. Prerequisites: journalism and mass communication (JMC) major and junior or senior standing.

### **40037 Scriptwriting for Video and Film (3)**

The emphasis of the course is on writing dramatic scripts for broadcast or motion pictures. The course also includes current perspectives on market needs. Prerequisites: 2.75 overall GPA and JMC 30004 with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major.

### **40092 Internship (1)**

(May be repeated for a total of 2 credit hours) Experience in a professional setting under professional supervision in student's field of specialization. S/U grading; IP grade permissible. Prerequisite: 2.75 overall GPA and special approval.

### **40095 Special Topics (1-3)**

Selected topics of special interest not covered in depth in existing courses; offered as resources permit. Prerequisite: 2.75 overall GPA.

### **40096 Individual Projects in Mass Communications (1-3)**

Individual research projects in mass communications. Letter grades and IP grade permissible. Prerequisites: 2.75 overall GPA and junior or senior standing and special approval.

### **40099 Senior Honors Project (2-4)**

Thesis or other independent study project in mass communication. IP grades permissible. Prerequisite: 2.75 overall GPA and open only to journalism and mass communication (JMC) majors admitted to the Honors College.

### **40192 Radio-Television Internship (1)**

(May be repeated for a total of 2 credit hours) Experience, under professional supervision, in a radio or television station or other industry using electronic audio or video communications. S/U grading; IP grade permissible. Prerequisite: 2.75 overall GPA and special approval.

### **40193 Variable Title Workshop in JMC (1-3)**

Workshop setting dealing with topics in mass communications. S/U grading. Prerequisite: 2.75 overall GPA and special approval.

### **40196 Independent Study in Radio and Television (1-3)**

(Repeatable for a total of 6 hours) Research and writing on topics approved by the students' advisors and study directors. IP grade permissible. Prerequisites: junior or senior standing and special approval.

### **40295 Special Topics in Computer Laboratory (1-3)**

Selected topics of special interest not covered in depth in existing courses; offered as resources permit. Prerequisite: 2.75 overall GPA and special approval. Special fee: \$10/credit hour—subject to change.

### **41002 Advanced Advertising Copywriting (3)**

Advanced copy writing projects in print advertising and corporate communications and execution of the entire print advertising campaigns. Prerequisites: 2.75 overall GPA and JMC 31002 and 31003 both with a grade of C- (1.7) or better and special approval.

### **41003 Advertising Account Management (3)**

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. Prerequisites: 2.75 overall GPA and JMC 31002 and 31003 both with a grade of C- (1.7) or better.

### **41004 Broadcast Copywriting (3)**

Application of advertising principles to broadcast media. Emphasis on commercial copy and client relationships. Prerequisites: 2.75 overall GPA and JMC 30004 or 31002 either with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major.

### **41005 Advertising Campaigns (3)**

Analysis of the planning, financing and execution of an advertising campaign through case study methods. Prerequisites: 2.75 overall GPA and JMC 31002 or 31003 either with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. Special fee: \$30 flat fee—subject to change.

**41081 Advertising Practices (3)**

The study of current advertising practices and issues. Prerequisites: 2.75 overall GPA and JMC 31002 and 31003 both with a grade of C- (1.7) or better.

**42005 Color Photography (3)**

(Cross-listed with VCD 48005) 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. Prerequisites: 2.75 overall GPA and JMC 32001 with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. Special fee: \$55 flat fee plus cost of film and processing—subject to change.

**42007 Photo-Illustration Techniques (3)**

(Cross-listed with VCD 48007) Creative photography for advertising and editorial uses. Assignments made in an art director/photographer relationship. Critique by professionals in addition to academic evaluation. Prerequisites: JMC 32004 and 42005 both with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. Special fee: Minimum of \$45 flat fee—subject to change.

**42008 Advanced Photojournalism (3)**

Discussion of contemporary photojournalists and issues. Production of photo-documentary, multimedia and illustrations appropriate to photojournalism. Senior portfolio review. Prerequisites: 2.75 overall GPA and JMC 26007 and 32002 both with a grade of C- (1.7) or better. Special fee: \$55 flat fee—subject to change.

**42009 Fashion Photography (3)**

(Cross-listed with VCD 38009) 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 32001 with a grade of C- (1.7) or better; or JMC 32004 and 42005 both with a grade of C- (1.7) or better. Special fee: \$45 flat fee—subject to change.

**42092 Practicum in Photography (1-3)**

(Cross-listed with VCD 48092) (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. Special fee: \$7.50/credit hour—subject to change.

**43035 Advanced Television Producing (3)**

Advanced understanding of how to produce new content for broadcast and the web. Prerequisites: journalism and mass communication (JMC) major and special approval.

**43036 Record Promotion (3)**

Class operates as an independent record label to critique, select, promote, publicize and sell

original recorded music. Prerequisite: journalism and mass communication (JMC) major.

**44040 Concept Psychographics (3)**

Analysis of media consumers utilizing demographic, attitudinal and lifestyle variables compared with more traditional approaches. Applications for programming, advertising and public relations are examined. Prerequisites: 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 percent on the Grammar Usage and Punctuation (GUP) test.

**44042 Live Sports Production (3)**

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- (1.7) or better; and score of at least 70 percent on the Grammar, Usage and Punctuation (GUP) test; and journalism and mass communication (JMC) major. Pre- or Corequisite: JMC 30004 with a grade of C- (1.7) or better. Corequisite: JMC 44043 and 45000.

**44043 Sports Field Production (3)**

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- (1.7) or better; and score of at least 70 percent on the Grammar, Usage and Punctuation (GUP) test; and journalism and mass communication (JMC) major. Pre- or Corequisite: JMC 30004 with a grade of C- (1.7) or better. Corequisite: JMC 44042 and 45000.

**44045 Promotions for Electronic Media (3)**

Fundamentals and latest trends in broadcast and cable promotion. Prerequisites: 2.75 cumulative GPA and journalism and mass communication (JMC) major.

**44050 Audio for Video (3)**

Understanding of the sonic aspects of visual productions including video studio, video field and online applications. Prerequisites: 2.75 cumulative GPA and journalism and mass communication (JMC) major.

**45000 Television Sports Graphics Production (3)**

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- (1.7) or better; and score of at least 70 percent on the Grammar, Usage and Punctuation (GUP) test; and journalism and mass communication (JMC) major. Pre- or Corequisite: JMC 30004 with a

grade of C- (1.7) or better. Corequisite: JMC 44042 and 44043.

**46000 Newspaper Design (3)**

Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing. Prerequisites: 2.75 overall GPA and JMC 26001; and JMC 22000 or 22001; and VCD 37000 all with a grade of C- (1.7) or better. Special fee: \$45 flat fee—subject to change.

**46001 Information Graphics (3)**

(Cross-listed with VCD 43007) Introduction to shapes, color, type and combinations of these for computer-designed news graphics: maps, charts, graphs and diagrams. Prerequisites: 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 percent on the Grammar Usage and Punctuation (GUP) test. Special fee: \$50 flat fee—subject to change.

**46003 Producing Television News (3)**

Introduction to the theory and practice of 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: minimum C- (1.7) in JMC 26008 and journalism and mass communication (JMC) major. Special fee: \$60 flat fee—subject to change.

**46006 Editorial Writing (3)**

Structures and purpose of editorial and column writing; study of editorial section of newspaper; practice in writing editorials. Prerequisites: 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.

**46007 Reporting in Depth (3)**

Techniques involved in researching, interviewing and writing in-depth news articles and analyses. Prerequisites: 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.

**46009 Reporting Public Affairs (4)**

Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques. Prerequisites: 2.75 overall GPA and JMC 26007 or 26008 either with a grade of C- (1.7) or better; and JMC 36005 or 46003 either with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. Special fee: \$40 flat fee—subject to change.



**46016 Magazine Publishing (3)**

Overview of magazine publishing—editorial, advertising, circulation and production. Analysis of magazines. Prerequisites: 2.75 overall GPA and a 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 percent on the Grammar Usage and Punctuation (GUP) test. Special fee: \$30 flat fee—subject to change.

**46020 Magazine Design (3)**

Marriage of words and visuals for designing magazine layouts and covers in desktop publishing. Prerequisites: 2.75 overall GPA and JMC 22000 and 26001 and 46016 and VCD 37000 all with a grade of C- (1.7) or better. Special fee: \$45 flat fee—subject to change.

**46021 Magazine Writing and Editing (3)**

Research, interviewing, writing and marketing of major magazine articles. Editing techniques for magazines. Prerequisites: 2.75 overall GPA and JMC 36005 and 40005 both with a grade of C- (1.7) or better. Special fee: \$30 flat fee—subject to change.

**46052 Advanced Broadcast News Practices (3)**

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. Special fee: \$60 flat fee—subject to change.

**46054 Broadcast Documentary (3)**

Development of documentary form for radio and television. Analysis and production of documentaries. Utilization of audio and video recording and editing. Prerequisites: 2.75 overall GPA and two of the following: JMC 33033 or 33034 or 33042 or 33043 all with a grade of C- (1.7) or better. Special fee: \$60 flat fee—subject to change.

**47003 Teaching High School Journalism (3)**

Methods and materials for teaching journalism in high school. Prerequisites: junior or senior standing and special approval of instructor. Special fee: \$30 flat fee—subject to change.

**47004 Desktop Publishing for High School Journalism Teachers (1)**

Basics of InDesign desktop publishing program as it relates to high school newspaper and magazines. Prerequisite: none.

**47005 Advising Journalism Publications (3)**

Group study of problems posed by advisors enrolled in the course. Prerequisite: JMC 47003 with a grade of C- (1.7) or better. Special fee: \$30 flat fee—subject to change.

**48001 Media Relations and Publicity (3)**

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. Prerequisites: 2.75 overall GPA and JMC 26001; and JMC 26007 or 26008; and JMC 38002 all with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. Special fee: \$30 flat fee—subject to change.

**48002 Public Relations Tactics (3)**

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." Prerequisites: 2.75 overall GPA and JMC 26001 and 38002 both with a grade of C- (1.7) or better. Special fee: \$30 flat fee—subject to change.

**48003 Public Relations Online Tactics (3)**

Explores fundamentals of website planning and design and provides hands-on skills development using the full range of cybermedia techniques. Includes emphasis on writing for online audiences. Prerequisites: 2.75 overall GPA; and JMC 26001, 28001 and 38002 all with a grade of C- (1.7) or better..

**48006 Public Relations Publications (3)**

Planning, writing and design of organizational publications, including newsletters, brochures, flyers, promotional mailers and Web sites. Course also explores the print production process. Prerequisites: 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. Special fee: \$30 flat fee—subject to change.

**48020 Mass Media Organizations and Public Information (3)**

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. Prerequisites: 2.75 overall GPA and junior or senior standing.

**48091 Seminar: Public Relations Campaigns (3)**

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.

**49021 Corporate Video (3)**

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 all with a grade of C- (1.7) or better and a journalism and mass communication (JMC) major. Special fee: \$60 flat fee—subject to change.

**Justice Studies (JUS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) >

Justice Studies (JUS)

**12000 Introduction to Justice Studies (3)**

Historical development and operational aspects of the contemporary justice systems with emphasis on emerging trends in the concept and practices of the component agencies. Prerequisite: none.

**18000 Introduction to Paralegal Studies (3)**

(Cross-listed with LEGT 18000) 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.

**22100 Basic Interviewing (3)**

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.

**22300 Police Role (3)**

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.

**22301 The Investigative Process (3)**

An examination of established investigative processes, techniques employed in conducting a systematic investigation and legal implications. Prerequisite: JUS 12000.

**25092 Field Placement (1-6)**

Observational experience under the direction of supervising faculty in a justice agency. IP grade permissible. Prerequisites: 6 credit hours of justice studies (JUS) coursework, including 12000, and special approval.

**26701 Corrections (3)**

Course topics include history of corrections, punishment, community corrections, correctional institutions, correctional administration, issues in corrections and future trends of corrections. Prerequisite: JUS 12000.

**26704 Issues in Law and Society (3)**

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. This course may be used to satisfy the Kent Core Requirements.

### **26705 Survey of Contractual Justice Services (3)**

Overview of contractual agencies within the justice system including volunteerism, private policing, quasi-court services, and contractual and cognate correctional agencies. Prerequisite: JUS 12000.

### **27095 Special Topics in Justice Studies (2 or 3)\***

(Repeatable for a total of 6 hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses. IP grade permissible. Prerequisite: none.

### **27311 Victimology (3)**

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.

### **28001 Legal Research and Writing (3)**

(Cross-listed with LEGT 18001) 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. Prerequisite: JUS 18000.

### **28003 Family Law and Procedure (3)**

(Cross-listed with LEGT 18003) Designed to acquaint the student with family law substance and practice. Included: definitions, terminology, topical areas and the philosophy underlying family law practice. Prerequisite: JUS 18000.

### **28004 Principles and Practice of Litigation (3)**

(Cross-listed with LEGT 28004) Introduction to the rules of civil procedure, statutes of limitation and discovery. Includes the role of the legal assistant in preparing for litigation. Prerequisite: JUS 18000.

### **28007 Estate and Probate Administration (3)**

(Cross-listed with LEGT 28007) 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: JUS 18000.

### **32200 Police and Community (3)**

An examination of the rights of individuals, citizen involvement and the police as members of the community, and the development, implementation and evaluation of related programs. Prerequisite: JUS 12000 and 22300; and sophomore standing.

### **32400 Research Methods in Justice Studies (3)**

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. This course may be used to satisfy the writing-

intensive requirement with approval of major department.

### **32500 Crisis Intervention (3)**

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.

### **33200 Criminal Law (3)**

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.

### **33300 Development of Justice in America (3)**

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.

### **33400 Crime and Justice in Popular Culture (3)**

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.

### **34200 Criminal Procedures and Evidence (3)**

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 18000; and junior standing.

### **34311 Youth and the Justice System (3)**

Analysis of situations involving the legal rights of children and youths which demand intervention by justice institutions or service agencies. Prerequisite: JUS 12000.

### **36702 Criminology (3)**

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.

### **36703 Juvenile Delinquency (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of

major department.

### **36792 Internship in Paralegal (3-12)**

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. IP grade permissible. Prerequisites: JUS 18000, 28001 and 28004.

### **37091 Seminar in Critical Issues in Justice (1-3)**

Intense analysis of issues significant and current in the justice field which are not covered in regular courses. IP grade permissible. Prerequisite: JUS 12000 and sophomore standing.

### **37095 Special Topics in Justice Studies (3)**

(Repeatable for a maximum of 6 credit hours). Intensive analysis of issues significant and current in the field which are not covered in regular courses. Prerequisite: junior standing.

### **37311 Minorities in Crime and Justice (3)**

Focus on the role of social and ethnic minorities as victims, offenders and participants in the justice process. Prerequisite: junior standing. This course may be used to satisfy the diversity requirement.

### **37411 Women in Crime and Justice (3)**

Women as a significant group in crime and their role in the development and operation of the criminal justice system. Prerequisite: junior standing. This course may be used to satisfy the diversity requirement.

### **38002 Contract Law (3)**

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: JUS 18000 and 28001.

### **38003 Administrative Law and Process (3)**

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 justice studies (JUS) coursework, including JUS 18000.

### **38004 Legal Ethics and Professional Responsibility (3)**

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. Prerequisites: JUS 18000 and 28001.

**38005 Tort Law (3)**

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. Prerequisites: JUS 18000 and 28001.

**38006 Applied Legal Research and Litigation (3)**

Case analysis and preparation of argumentative memorandum. Includes writing of factual memoranda, file summaries and advocacy letters. Prerequisites: JUS 18000 and 28001. This course may be used to satisfy the writing-intensive requirement.

**38007 Human Service Agencies and the Law (3)**

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.

**44400 Justice Administration (3)**

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.

**44411 Varieties of Police Work (3)**

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.

**45093 Variable Title Workshop in Justice Studies (1-6)**

S/U grading. Prerequisite: special approval.

**45096 Individual Investigation (1-3)**

(Repeated registration permissible when topic varies) 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. IP grade permissible. Prerequisites: JUS 12000 and 26704 and 32400; and junior standing; and special approval.

**46701 Crime, Justice and Substance Abuse (3)**

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.

**46705 Community Corrections (3)**

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.

**46707 Correctional Institutions (3)**

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.

**46708 Treatment Methods (3)**

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.

**46792 Internship (3-12)**

Work experience under direction of supervising faculty member in private, federal, state or local justice agency or law agency. S/U grading; IP grade permissible. Prerequisites: 9 credit hours of justice studies (JUS) coursework, including JUS 12000 and 2.00 GPA in JUS and overall and junior standing and special approval.

**46798 Research in Justice Studies (3-12)**

(Repeatable for a total of 12 hours) 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. IP grade permissible. Prerequisite: JUS 12000 and 26704 and 32400; and junior standing; and minimum 3.20 GPA overall; and special approval.

**47095 Special Topics in Justice Studies (3)**

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.

**47111 Civil Law and Procedure (3)**

Substantive and procedural aspects of civil law with particular emphasis on civil actions arising out of breaches of criminal law. Prerequisite: JUS 12000 or 18000; and junior standing.

**47211 Court Functions (3)**

Analysis of the structure, functions and critical role of incumbents in the criminal court. Prerequisite: JUS 12000 and 26704; and junior standing.

**47311 Comparative Justice Systems (3)**

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.

**48200 Data Analysis in Justice Studies (3)**

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.

**48300 Law of Corporations and Other Associations (3)**

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. Prerequisites: JUS 18000 and 28001.

**48400 Intellectual Property Law (3)**

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 to international developments in the IP fields. Prerequisites: JUS 18000 and 28001.

*\*Course ineligible to be repeated for GPA recalculation.*

**Kent Blossom Courses**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) >

Kent Blossom Courses

**Kent Blossom Art (KBA)****44080 Studio Experience in Fine Arts (1-6)**

Studio exploration of selected concepts in painting, sculpture, printmaking or photography. Content varies with each section offered. Course is repeatable. IP grade permissible. Prerequisite: special approval. Special fee: \$22/credit hour—subject to change.

**45080 Studio Experience in Crafts (1-6)**

Studio exploration of selected concepts in ceramics, enameling, glass, jewelry/metals or fiber arts. Content varies with each section offered. Course is repeatable. IP grade permissible. Prerequisite: special approval. Special fee: \$25/credit hour—subject to change.

### Kent Blossom Music (KBM)

#### 40026 Accompanying Projects (2-4)

(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. S/U grading. Prerequisite: audition.

#### 40031 Chamber Music (1-4)

(Repeatable for a total of 8 hours) Rehearsal, coaching and performance of representative chamber repertoire from the Baroque era through the 20th century. Woodwinds, horn, strings and piano. Intensive daily rehearsal and coaching. S/U grading. Prerequisite: audition.

#### 40032 Orchestral Repertoire and Technique (1)

(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. S/U grading. Prerequisite: audition.

#### 40042 Applied Music—Instrumental (1-2)

S/U grading. Prerequisite: audition.

#### 40093 Variable Title Workshop in Music (1-4)

Offered for specific professional needs. Emphasis on performance and pedagogical skills. S/U grading. Prerequisite: special approval.

### Kent Blossom Theatre (KBT)

#### 22092 Practicum I: Design/Technology (3)

(Repeatable for a total of 12 hours) Practical experience in theatre production under faculty supervision. Available for lower-division students only. Prerequisite: freshmen or sophomores only.

#### 22192 Practicum I: Performance (3)

(Repeatable for a total of 12 hours) Practical experience in theatre performance under faculty supervision. Available for lower-division students only. Prerequisite: freshmen or sophomores only.

#### 41096 Individual Study: Theatre (1-3)

(Repeatable for a total of 12 hours) Selected research topics in theatre. Prerequisite: special approval.

#### 41992 Theatre Production Internship (1-6)

(Repeatable for a total of 12 hours) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in Porthouse Theatre Company. Prerequisites: junior standing and special approval.

#### 42092 Practicum II: Design Tech (3)

(Repeatable for a total of 12 hours) Advanced practical experience in theatre production under faculty supervision. Available for upper-division students only. Prerequisite: juniors or seniors only.

#### 42192 Practicum II: Performance (3)

(Repeatable for a total of 12 hours) Advanced practical experience in theatre performance under faculty supervision. Available for upper-division students only. Prerequisite: junior or senior standing.

### Latin (LAT)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Latin (LAT)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

#### 16201 Elementary Latin I (4)

An introduction to the classical Latin language in the context of ancient Roman culture. Prerequisite: none.

#### 16202 Elementary Latin II (4)

A continuation of the introduction to the classical Latin language in the context of ancient Roman culture. Prerequisite: LAT 16201.

#### 26201 Intermediate Latin I: Readings (3)

Excerpts from Latin literature with emphasis on translation into English. Prerequisite: LAT 16202.

#### 26202 Intermediate Latin II: Readings (3)

Excerpts from Latin literature with emphasis on both prose (e.g., Caesar, Cicero) and poetry (Vergil, Catullus). Prerequisite: LAT 26201.

#### 36170 Cicero (3)

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.

#### 36171 Vergil (3)

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.

#### 40393 Variable Title Workshop (1-6)

Workshops individually designed to provide instruction and training in Latin studies. S/U grading. Prerequisite: Departmental special approval.

#### 46095 Selected Topics in Latin (3)

Topic announced in the Schedule of Classes. Prerequisite: LAT 36170 or 36171.

#### 46096 Individual Investigation (1-3)

Investigation of problems in Latin literature or linguistics. IP grading permissible. Prerequisites: minimum 3 credit hours of coursework at the 40000 level and departmental special approval.

#### 46211 Latin Prose Composition (3)

Analysis of prose models; writing of connected

Latin prose with attention to the Latin idiom.

Prerequisite: LAT 36170 or 36171.

#### 46351 Latin Comedy (3)

Characteristics and history of Latin comedy; readings from Plautus and Terence. Prerequisite: LAT 36170 or 36171.

#### 46352 Elegiac Poets (3)

Selections from Tibullus, Propertius and Ovid. Prerequisite: LAT 36170 or 36171.

#### 46372 Lyric Poetry (3)

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 36171.

#### 46373 Advanced Prose Authors (3)

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 36171.

#### 46374 Juvenal's Satires and Martial's Epigrams (3)

General consideration of Roman satire. Prerequisite: LAT 36170 or 36171.

#### 46375 Lucretius (3)

De Rerum Natura. Prerequisite: LAT 36170 or 36171.

### Legal Assisting Technology (LEGT)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Legal Assisting Technology

#### 18000 Introduction to Paralegal Studies (3)

(Cross-listed with JUS 18000) 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.

#### 18001 Legal Research and Writing (3)

(Cross-listed with JUS 28001) 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.

#### 18002 Corporate Law (3)

Introduction to corporation law and its application to client variations in practice. Course offered at the East Liverpool Campus only. Prerequisite: LEGT 18001.

#### 18003 Family Law and Procedure (3)

(Cross-listed with JUS 28003) 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.

### **18004 Tort Claims for Paralegals (3)**

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.

### **18005 Employment Regulations (3)**

Introduction to the employment environment and various regulations pertaining to the workplace. Wage and hour statutes, wrongful discharge statutes, ERISA, Title VII, COBRA. Course offered at the East Liverpool Campus only. Prerequisite: LEGT 18000.

### **21092 Internship (2)**

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. Prerequisites: LEGT 28006 and special approval. Corequisite: LEGT 28008.

### **27091 Special Topics in Paralegal Studies (2-3)**

(Cross-listed with JUS 27095) (Repeatable for a total of 6 hours) Intensive analysis of issues significant and current in the field which are not covered in regular courses. IP grade permissible. Prerequisite: LEGT 18000.

### **28004 Principles and Practice of Litigation (3)**

(Cross-listed with JUS 28004) 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.

### **28005 Civil Litigation (3)**

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.

### **28006 Advanced Legal Research and Writing (3)**

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.

### **28007 Estate and Probate Administration (3)**

(Cross-listed with JUS 28007) 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.

### **28008 Professional Development for Paralegals (1)**

Exploration and discussion of the paralegal field. Employment opportunities and responsibilities. Professional organizations and business etiquette. Prerequisites: LEGT 18001 and special approval.

*\*\*Courses offered only at Regional Campuses.*

## **University Libraries (LIB)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > University Libraries (LIB)

### **10010 Information Fluency for College Success (3)**

(Cross-listed with LIS 10010). Teaches information and technology skills critical to college success, enabling student 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.

### **30010 Information Fluency in the Workplace and Beyond (3)**

(Cross-listed with LIS 30010) 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.

## **Library and Information Science (LIS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Library and Information Science (LIS)

### **10010 Information Fluency for College Success (3)**

(Cross-listed with LIB 10010) Teaches information and technology skills critical to college success, enabling student 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.

### **30010 Information Fluency in the Workplace and Beyond (3)**

(Cross-listed with LIB30010) 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.

### **40693 Variable Title Workshop in Library and Information Science (1-3)**

Intensive examination of special topics of interest. Course may be repeated. S/U grading. Prerequisites: junior or senior standing and special approval.

### **41095 Selected Topics in Library Science (1-3)**

Offered irregularly as resources and opportunities permit. Topics will be announced in Schedule of Classes. Prerequisite: special approval.

## **Mathematics (MATH)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Mathematics (MATH)

*For placement in college mathematics courses see Arts and Sciences—Mathematics and Logic Requirement—Placement. Due to the sequential nature of the study of mathematics, once students have received credit for, or established proficiency at, one level in a sequence of mathematics coursework, they are not allowed to receive academic credit toward graduation for a prior course in the sequence or for a course in a lower sequence. Students with questions concerning the applicability of such sequential coursework should consult the Department of Mathematical Sciences.*

### **10006 Core Mathematics I and II (4)**

Covers exactly the same topics as MATH 10021 and 10022 combined. Not offered on every campus. Hours do not count toward graduation. Prerequisite: none. Special fee: \$22.50 flat fee—subject to change.

### **10007 Core Mathematics III and IV (4)**

Covers exactly the same topics as MATH 10023 and 10024 combined. Not offered on all campuses. Students should have appropriate placement scores, or have a minimum C (2.0) grade in MATH 10022 or MATH 10006 before taking this class. Prerequisite: none. Special fee: \$22.50 flat fee—subject to change.

### **10020 Pre-Core Mathematics (2)**

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 calculators are not allowed. Hours do not count toward graduation. Prerequisite: none.

### **10021 Core Mathematics I (2)**

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. Special fee: \$22.50 flat fee—subject to change.

### **10022 Core Mathematics II (2)**

Introduction to functions, systems of linear equations, exponents, polynomial operations, scientific notation. Factoring polynomials, solving quadratics by factoring, radicals and rational exponents. Hours do not count toward graduation. Students should have appropriate placement scores, or have a minimum C (2.0) grade in MATH 10021 before taking this class. Prerequisite: MATH 12012 or 12021 or 12002. Special fee: \$22.50 flat fee—subject to change.

### **10023 Core Mathematics III (2)**

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: none. Students should have appropriate placement scores, or have a minimum C (2.0) in MATH 10022 before taking this class. Special fee: \$22.50 flat fee—subject to change.

### **10024 Core Mathematics IV (2)**

Advanced factoring techniques, rational functions, radical equations, absolute value equations and inequalities. Exponential and logarithmic functions: introduction, graphing, problem-solving. Prerequisite: none. Students should have appropriate placement scores, or have a minimum C (2.0) in MATH 10023 before taking this class. Special fee: \$22.50 flat fee—subject to change.

### **10041 Elementary Probability and Statistics (3)**

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 a minimum C (2.0) grade in MATH 10007 or any math course numbered MATH 10023 or higher before taking this class. Prerequisite: none.

### **11008 Explorations in Modern Mathematics (3)**

Topics from various branches of mathematics are chosen to introduce 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 class. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

### **11009 Modeling Algebra (4)**

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 credit for MATH 11010. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Students may not earn credit for this class if they have previously earned credit for MATH 11010. 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. This course may be used to satisfy the Kent Core Requirements.

### **11010 Algebra for Calculus (3)**

Study of elementary functions and graphs, including polynomial, exponential and logarithmic functions; complex numbers; binomial theorem. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Student should have appropriate placement scores (at least ACT 22 or equivalent), or have a minimum C (2.0) grade in MATH 10024 or MATH 10007 before taking this class. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

### **11012 Intuitive Calculus (3)**

Designed to give an overview of differential and integral calculus to business and life science majors. Does not include trigonometric functions. 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. This course may be used to satisfy the Kent Core Requirements.

### **11022 Trigonometry (2)**

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 a minimum C (2.0) grade in MATH 11010 before taking this class. Prerequisite: none.

### **12002 Analytic Geometry and Calculus I (5)**

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 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: a grade of C (2.0) or better in MATH 11010 and 11022. This course may be used to satisfy the Kent Core Requirements.

### **12003 Analytic Geometry and Calculus II (5)**

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 12012.

### **12011 Calculus with Precalculus I (3)**

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 for MATH 12002. Students who have not taken a previous mathematics course at Kent State must see an academic advisor for placement. Prerequisite: Compass Algebra score of 55 or better with either an SAT Math score of at least 480 or an ACT Math score of at least 20; or Compass Algebra score of 36 or better with either an SAT Math score of at least 620 or an ACT Math score of at least 27. This course may be used to satisfy the Kent Core Requirements.

### **12012 Calculus with Precalculus II (3)**

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 for MATH 12002. Prerequisite: MATH 12011. This course may be used to satisfy the Kent Core Requirements.

### **12021 Calculus for Life Sciences (4)**

Differential and integral calculus using examples and problems in life sciences. Prerequisite: integrated life sciences (ILS) major.

### **12022 Probability and Statistics for Life Sciences (3)**

Probability and statistics with applications in medical and biological sciences. Prerequisite: MATH 12021 or 12003.

### **14001 Basic Mathematical Concepts I (4)**

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. Prerequisite: none. Student 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 higher than MATH 10023 before taking this class. This course may be used to satisfy the Kent Core Requirements.

### **14002 Basic Mathematical Concepts II (4)**

Basic concepts of probability, statistics and geometry. Prerequisite: MATH 14001. This course may be used to satisfy the Kent Core Requirements.

**19001 Technical Mathematics I (4)\*\***

Introduction to geometry, algebra and trigonometry. For students in the engineering technologies. Prerequisite: special approval.

**19002 Technical Mathematics II (4)\*\***

Continuation of MATH 19001. Emphasizes advanced topics in algebra and trigonometry, analytic geometry, derivatives and integrals. Prerequisite: MATH 19001.

**19099 Field Experience in Mathematics Instruction (1)**

Learning through tutoring. A supervised laboratory experience in providing explanations of mathematical concepts. May be repeated in a different area. Prerequisite: special approval.

**20095 Special Topics in Mathematics (1-5)\***

(Repeated registration permissible) Various special courses will be announced in the Schedule of Classes under this course number with different section numbers. Prerequisite: special approval.

**21001 Linear Algebra with Applications (3)**

Systems of linear equations and the associated matrix operations, linear transformations, vector spaces, bases, eigenvectors. Prerequisite: MATH 11012 or 12002.

**21003 Introduction to Systems Analysis and Data Communications (3)\*\***

(Cross-listed with COMT 21003) Background in the topic of systems analysis, design, development and implementation including an overview of teleprocessing. Prerequisite: MIS 24080.

**21092 Computer Practicum (2)\* \*\***

(Cross-listed with COMT 21092) Supervised work experience in a computer installation. Prerequisite: none.

**22005 Analytic Geometry and Calculus III (3)**

Study of functions of several variables, including partial derivatives and multiple integrals. Prerequisite: MATH 12003.

**23022 Discrete Structures for Computer Science (3)**

(Cross-listed with CS 23022) 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. Prerequisites: CS 10051 and a grade of C (2.0) or better in MATH 11010 or 11011 and 11022; 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.

**30011 Basic Probability and Statistics (3)**

Analysis and representation of data. Controlled experiments and observations. Measurement errors. Correlation and regression. Sampling. Probability models and tests of models. Inference. Prerequisite: a grade of C (2.0) or better in MATH 11010 or 11011 or 12001.

**30055 Mathematical Theory of Interest (3)**

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.

**31011 Discrete Mathematics (3)**

Discrete mathematical techniques and structures including finite set theory, graph theory, propositional calculus, combinatorics and discrete probability. Formal methodology and proof techniques. Prerequisites: MATH 12002. Pre/corequisite: MATH 21001.

**31045 Formal Logic (3)**

(Cross-listed with CS 31045 and PHIL 31045) Study of first-order predicate calculus with identity and function symbols. Prerequisite: none.

**32044 Introduction to Ordinary Differential Equations (3)**

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 22005.

**32051 Mathematical Methods in the Physical Sciences I (4)**

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.

**32052 Mathematical Methods in the Physical Sciences II (4)**

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. Prerequisite: MATH 32051; or 21001 and 22005.

**34001 Fundamental Concepts of Algebra (3)**

Professionalized course in algebra for prospective secondary teachers. Postulational development of number system of algebra; other systems, related topics, applications. Prerequisite: MATH 12002.

**34002 Fundamental Concepts of Geometry (3)**

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.

**40011 Introduction to Probability Theory and Applications (3)**

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.

**40012 Introduction to Statistical Concepts (3)**

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.

**40022 Linear Models and Statistical Analysis (3)**

Regression model, multivariate normal distribution, point and interval estimates, Gauss-Markov Theorem, correlation and regression, tests of hypotheses, applications. Prerequisites: MATH 21001 and 40012.

**40031 Basic Nonparametric Statistics (3)**

Rank tests for different kinds of hypothesis, large sample theory, efficiency comparisons, tests of Kolmogorov-Smirnov type. Prerequisite: MATH 40012.

**40041 Statistical Methods for Experiments (3)**

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. Prerequisites: MATH 30011.

**40042 Sampling Theory (3)**

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.

**40051 Topics in Probability Theory and Stochastic Processes (3)**

Topics from conditional expectations, Markov chains, Markov processes, Brownian motion and Martingales and their applications to stochastic calculus. Prerequisite: MATH 40011.

**40055 Actuarial Mathematics I (4)**

Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. Prerequisite: MATH 30055 and 40011.

**40056 Actuarial Mathematics II (4)**

Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models. Prerequisite: MATH 40055.

**40091 Seminar in Actuarial Mathematics (2)**

Seminar course designed to prepare students for the Society of Actuaries examination on actuarial mathematics. Prerequisite: MATH 40056.

**40093 Variable Title Workshop in Mathematics (1-6)**

Studies special topics in mathematics. Not acceptable for credit toward a major or minor in math without approval of student's advisor. S/U grading. Prerequisite: special approval.

**41001 Introduction to Modern Algebra I (3)**

Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains, and homomorphisms. Prerequisites: MATH 21001 and 22005. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41002 Introduction to Modern Algebra II (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41012 Finite Mathematics (3)**

(Cross-listed with CS 41012) 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.

**41021 Theory of Matrices (3)**

A rigorous study of the topics introduced in matrix algebra. Topics included are vector space preliminaries, canonical forms of matrices, diagonalizability criteria. Prerequisites: MATH 21001 and 22005.

**41045 Metalogic (3)**

(Cross-listed with CS 41045 and PHIL 41045) May be counted toward B.A. or B.S. in mathematics major. See PHIL 41045 for description. Prerequisite: PHIL 31045.

**42001 Introduction to Analysis I (3)**

Topics include basic structure of the real numbers, Cauchy sequences, convergence, completeness of the real numbers, continuity, differentiation and Riemann integration. Prerequisites: MATH 21001 and 22005. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**42002 Introduction to Analysis II (3)**

Topics include further development of integration theory, infinite series, uniform convergence, several variable calculus and metric spaces. Prerequisite: MATH 42001. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**42011 Mathematical Optimization (3)**

Analytic and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered. Prerequisites: MATH 21001 and 22005.

**42021 Graph Theory and Combinatorics (3)**

Fundamentals and applications of combinatorial mathematics. Topics include traversability, colorability, networks, inclusion and exclusion, matching and designs. Prerequisites: MATH 12003 and 21001.

**42024 Numbers and Games (3)**

The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory. Prerequisite: MATH 21001.

**42031 Mathematical Models and Dynamical Systems (3)**

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.

**42041 Advanced Calculus (3)**

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. Prerequisites: MATH 21001 and 22005.

**42045 Introduction to Partial Differential Equations (3)**

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.

**42048 Introduction to Complex Variables (3)**

Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications. Prerequisite: MATH 22005.

**42091 Seminar: Modeling Projects (3)**

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. IP grade permissible. Prerequisite: MATH 42031. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**42201 Introduction to Numerical Computing I (3)**

(Cross-listed with CS 42201) 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. Prerequisites: MATH 12003 and 21001 and CS 23021. Special fee: \$10 flat fee—subject to change.

**42202 Introduction to Numerical Computing II (3)**

(Cross-listed with CS 42202) A continuation of MATH 42201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations. Prerequisites: MATH 32044 and 42201. Special fee: \$10 flat fee—subject to change.

**45011 Differential Geometry (3)**

Analytic and metric differential geometry of curves and surfaces. Prerequisite: MATH 22005.

**45021 Euclidean Geometry (3)**

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.

**45022 Linear Geometry (3)**

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.

**46001 Elementary Topology (3)**

Metric spaces, introduction to topological spaces, separation axioms. Prerequisite: MATH 22005.

**47001 Mathematical Logic and Set Theory (3)**

Axiomatic set theory, relations, development of real numbers, cardinal numbers, axiom of choice. Prerequisite: special approval.

**47011 Theory of Numbers (3)**

Divisibility properties of the integers, prime numbers, congruences, quadratic reciprocity, Diophantine equations, number theoretic functions, simple continued fractions, rational approximations. Prerequisite: MATH 12003.

**47021 History of Mathematics (3)**

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 22005.

### **49995 Selected Topics in Mathematics and Its Applications (1-4)**

(Repeated registration permissible) Various special courses will be announced in the Schedule of Classes under this course number with different section numbers. Prerequisite: special approval.

### **49996 Individual Study (1-4)**

Prerequisite: special approval of instructor.

### **49998 Research (1-15)**

Prerequisite: special approval.

*\*Course ineligible to be repeated for GPA recalculation.*

*\*\*Courses offered only at Regional Campuses.*

## **Middle Childhood Education (MCED)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Middle Childhood Education (MCED)

### **30000 Curriculum and Organization in Middle Childhood (2)**

History, philosophy, curricula and organization of schools 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: HDFS 24013.

### **30001 Teaching Mathematics in Middle Childhood I (3)**

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. Prerequisites: EDPF 29525; and MATH 14001 and 14002; or MATH 12001 and 12002. Admission to advanced study. Special fee: \$10 flat fee—subject to change.

### **30002 Integrated Social Studies and Science in Middle Childhood (3)**

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. Special fee: \$15 flat fee—subject to change.

### **30092 Field Experience II: Middle Childhood (1)**

School-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. S/U grading. 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.

### **31000 Teaching and Learning in Middle Childhood (3)**

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. 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.

### **40000 Teaching and Learning in Middle Childhood (2)**

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: HDFS 24013 and admission to advanced study.

### **40001 Teaching Mathematics in Middle Childhood II (3)**

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. Special fee: \$10 flat fee—subject to change.

### **40002 Teaching Science in the Middle Childhood II (3)**

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. 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. Special fee: \$15 flat fee—subject to change.

### **40003 Teaching Social Studies in Middle Childhood II (3)**

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. 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.

### **40005 Effective Use of Phonics in Reading (3)**

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.

### **40006 Reading and Writing in Middle Childhood (6)**

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. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

### **40007 Teaching Reading With Literature in Middle Childhood (3)**

The study of the teaching of reading with literature to middle childhood students within an integrated language arts approach in a comprehensive literature program. Prerequisite: MCED 40006 and admission to advanced study.

### **40045 Teaching Mathematics in the Intermediate Years, Grades 4-5 (3)**

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 grade of C (2.0) or better.

### **40092 Field Experience III: Middle Childhood (1)**

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. S/U grading. Corequisite: MCED 40000.

### **41000 Curriculum and Organization in Middle Childhood (3)**

History, philosophy, curricula and organization of schools 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. 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: admission to advanced study and middle childhood education (MCED) major and MCED 31000.

### **42357 Student Teaching Middle Childhood/Gifted Education (5)**

All-day student teaching experience in the middle grade schools for eight weeks. S/U grading; IP grade permissible. 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: MCED 40007 and 41000 and admission to advanced study.

### **42358 Student Teaching in Middle Childhood (9)**

Full-time student teaching for 12 weeks in two selected concentrations (mathematics, science, language arts, social studies) and reading in grades 4-5/or grades 6-7-8. S/U grading; IP grade permissible. 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 40007 and MCED 41000 and admission to advanced study.

### **46645 Critical Inquiry and Integration: Science and Social Studies, Grade 4 (3)**

Introduces students to fourth grade content using and interdisciplinary, inquiry approach to teaching and learning in science and social studies. Prerequisite: special approval.

### **47745 Critical Inquiry and Integration: Science and Social Studies, Grade 5 (3)**

Engages students in the use and development of pedagogical content knowledge for teaching grade 5 using and interdisciplinary, inquiry approach to teaching and learning in science and social studies. Prerequisite: special approval.

### **49525 Inquiry into Professional Practice: Middle Childhood (3)**

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. Prerequisites: MCED 40007 and 41000. Corequisite: MCED 42358.

## **Modern and Classical Language Studies (MCLS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Modern and Classical Language Studies (MCLS)

### **10001 Introduction to Structural Concepts for Language Students (2)**

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.

### **21417 Multiculturalism in Today's Germany (3)**

This course examines how issues of diversity have shaped German culture and traces the country's transformation into a postnational, multicultural society. Taught in English; knowledge of German not necessary. Prerequisite: none. This course may be used to satisfy the diversity requirement.

### **22217 Diversity in Today's Russia (3)**

This course examines how issues of diversity have shaped Russian culture and traces Russia's attempts at transition to a postnational, multicultural society. Taught in English; knowledge of Russian not necessary. Prerequisite: none. This course may be used to satisfy the diversity requirement.

### **23217 The Francophone Experience (3)**

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. This course may be used to satisfy the diversity requirement.

### **28403 Hispanics in the United States (3)**

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.

### **28404 The Latin American Experience (3)**

An introduction to various aspects of contemporary Latin American societies and cultures. Taught in English; no knowledge of a foreign language is necessary. Prerequisite: none. This course may be used to satisfy the diversity requirement.

### **28405 The Spanish Experience (3)**

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. This course may be used to satisfy the diversity requirement.

### **30376 Novels of Pierre Loti (3)**

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. This course may be used to satisfy the diversity requirement.

### **30660 Orientation to Second Language Pedagogy (3)**

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. Prerequisites: special approval.

### **37143 The African-Brazilian Experience in Culture and Literature (3)**

(Cross-listed with HIST 31143 and PAS 37143) 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. This course may be used to satisfy the diversity requirement.

### **39597 Intradepartmental Colloquium (1-4)**

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.

### **40093 Variable Title Workshop in Modern and Classical Language Studies (1-6)**

Workshops individually designed to provide instruction and training in specific areas of modern and classical language studies. S/U grading. Prerequisite: departmental special approval.

### **40095 Selected Topics (1-3)**

Topic to be announced in the Schedule of Classes. Repeated registration permissible when content varies. Prerequisite: senior standing.

### **40420 Foreign Languages and Culture Studies (3)**

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.

### **40525 Inquiry into Professional Practice (3)**

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.

### **40654 Computers in Second Language Teaching (3)**

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.

### **40657 Student Teaching of a Second Language (3-9)**

Supervised practicum in the teaching of a second language, grades K-12. S/U grading; IP grade permissible. Prerequisite: special approval.



#### **40660 Methods of Teaching Foreign Language (3)**

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. Prerequisites: MCLS 30660 and special approval.

### **Mechanical Engineering and Related Technologies (MERT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Mechanical Engineering and Related Technologies (MERT)

#### **Courses offered only at Regional Campuses**

#### **12000 Engineering Drawing (3)**

Engineering drawing principles and techniques: lettering, instrument use, orthographic projection, sketching, sections, auxiliary views, dimensioning and conventional practices. Electrical/electronics drawing including schematic and PC layout. Prerequisite: none.

#### **12001 Computer-Aided Drafting (3)**

Builds on skills learned in 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.

#### **12004 Manufacturing Processes (3)**

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 material available. Prerequisite: none.

#### **12005 Properties of Materials (3)**

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.

#### **21096 Individual Investigation in Mechanical Engineering Technology (1-4)\***

Independent, in-depth research of a mechanical engineering technology topic supervised and coordinated by an engineering technology faculty member. Prerequisite: special approval.

#### **22003 Computer-Aided Tool Design (3)**

Tool design practices and procedures including materials, commercial standards, cutting tools, drill jigs, fixtures, dies and gauges using computer-aided design. Prerequisite: MERT 12001.

#### **22004 Mechanics and Machine Design (5)**

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: MERT 22002.

#### **22005 Statics (3)**

Basic vector mechanics, calculation of reactions for applied forces, drawing free body diagrams, working with equations of equilibrium, analysis of simple structures, calculating mass properties and force due to friction. Prerequisite: MATH 19001. Corequisite: MATH 19002.

#### **22006 General Mechanical Laboratory (3)**

Laboratory testing to determine material properties: tension, compression, shear, torsion, impact and hardness. Materials testing methods including engineering instrumentation. Prerequisite: sophomore standing.

#### **22007 Strength of Materials (3)**

Covers taking the stresses induced into members due to applied loading, and couples with mass properties of the sections, designing members to safely carry the loads. Types of stresses considered are tensile, compressive, shear, bending, torsional and combines. Prerequisite: MERT 22005.

#### **22009 Robotics and Flexible Automation (3)**

A hands-on course in automated manufacturing systems, including workcell design with interfacing to robotics and related economic considerations, selection and feasibility. Prerequisite: EERT 22014.

#### **22011 Dynamics (3)**

Motion of particles and rigid bodies; kinematics, kinetics, Newton's Laws; work, energy, power and the impulse-momentum principle. Prerequisite: sophomore standing.

#### **22012 Fluid Power (3)**

Fluid properties, kinematics of fluid flow, momentum, viscosity, conservation of energy in fluid flow, industrial hydraulics and gas laws. Prerequisite: none.

#### **22020 Applied Vector Analysis (1)**

A course in vector analysis, differential forms, matrices and applied tensor analysis as applied to engineering and technology problems. Prerequisite: MATH 19002.

#### **22021 Applied Finite Element Analysis (1)**

Introduction to finite element analysis methods as applied to engineering and technology problems. Prerequisite: MATH 19002. Corequisite: MERT 22002.

#### **22029 Structure Analysis (3)**

Drafting techniques for preparing detailed working drawings for steel, concrete, timber and masonry structures. Application of design to structures and

machine components. Elementary stress analysis. Prerequisite: MERT 12000.

#### **22095 Special Topics (1-3)\***

(Repeated registration permitted) Special topics in mechanical engineering technology.

Prerequisite: special approval.

\*Course ineligible to be repeated for GPA recalculation.

### **Manufacturing Engineering Technology (MFGT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Manufacturing Engineering Technology (MFGT)  
**Courses offered only at Regional Campuses.**

#### **2010 Safety in the Workplace (2)**

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.

#### **13001 Computer Numerical Control Programming (3)**

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 12004.

#### **14001 Geometric Dimensioning and Tolerancing (3)**

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. Prerequisites: MERT 12000 and EERT 22003.

#### **21001 Standard Design Practice for Manufacturing Technology (3)**

Analysis of fundamental machine design components. Discussion will include keys, fasteners, pulleys, gears, chains, bearings, power transmission equipment and associated topics. Prerequisites: EERT 22002 and MERT 12001 and 12005.

#### **22014 Advanced Industrial Electronics (3)**

Advanced course in PLC program design and implementation. Emphasis on Boolean logic. Project definition and completion. Prerequisite: EERT 22013

#### **23001 Computer-Aided Manufacturing (3)**

Theory and application of computer-aided manufacturing. Generation of CNC code using CAM applications, both from CAD drawings and directly from CAM package. Prerequisites: MFGT 13001 and MERT 12001.

### **23002 Advanced Computer-Aided Manufacturing (3)**

An advanced class in computer-aided manufacturing. Electrical Discharge Machining (EDM) program applications. Emphasis will be placed on industrial projects. Prerequisite: MFGT 23001.

## **Management and Information Systems (MIS)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Management and Information Systems \(MIS\)](#)

### **24053 Introduction to Computer Applications (3)**

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.

### **24056 Fundamentals of Business Statistics (3)**

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 11011 or 11012 or 12001 or 12002.

### **24060 Systems Analysis I (3)**

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.

### **24065 Web Programming (3)**

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.

### **24093 Variable Title Workshop in Management and Information Systems (1-6)**

Special workshop in management and information systems. Credits depend on scope of project. S/U grading. Prerequisite: special approval.

### **24163 Principles of Management (3)**

Introductory course in management and organizational design. The leading contributions in the area are reviewed and practical implications are developed. Prerequisite: Minimum sophomore standing.

### **34031 Systems Simulation (3)**

Concepts and methods of simulating systems to facilitate managerial decision making. Students design computerized simulation models using

simulation language to analyze complex problems. Prerequisites: minimum 2.50 cumulative GPA; and MIS 24056 or MATH 10041 or BMRT 24004; and MIS 24080.

### **34032 Data and File Technology (3)**

An introduction to file architecture and database management systems. The application of these technologies is detailed. Prerequisite: MIS 24060 and 24070.

### **34033 Computer Programming for Business II (3)**

Continuation of Computer Programming for Business I. Emphasis on problem solving, developing systems, structured programming, programming style conventions and programming in teams. Prerequisites: MIS 24060 and 24070.

### **34036 Large Systems Technology (3)**

An introduction to the use of large computer systems; experience with job control language, utilities, teleprocessing monitors, execution languages and job streams. Prerequisites: MIS 24060 and 24070.

### **34045 Small Systems Technology (3)**

An examination of the role of small computer systems within an organization's information systems environment. Prerequisites: MIS 24060 and 24070

### **34053 Data Integration (3)**

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. Prerequisites: MIS 24060 and 24070; not open to computer information systems (CIS) majors.

### **34054 Using Information Systems for Solving Business Problems (3)**

This course is a continuation of MIS 24053 and provides students with further study of use of information systems in solving business problems. Prerequisite: minimum 2.50 cumulative GPA; and MIS 24053 or COMT 11000; not open to computer information systems (CIS) majors.

### **34055 Computer Decision Modeling (3)**

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: minimum 2.50 cumulative GPA; and MIS 24053 or COMT 11000; and MIS 24056 or MATH 10041 or BMRT 21004; not open to computer information systems (CIS) majors.

### **34058 Operations Research I (3)**

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 11012 or 12001 or 12002.

### **34059 Service Operations Management (3)**

Provides students with the concepts and tools necessary to effectively manage service operations. Also prepares them for management opportunities in service firms that represent the fastest-growing sector of the economy. The service management is presented from an integrated viewpoint with a focus on customer satisfaction. Course materials are organized around four modules: (1) understanding services, (2) designing the service enterprise, (3) managing service operations and (4) presenting world-class service. Prerequisite: minimum 2.50 cumulative GPA and MIS 34060.

### **34060 Operations Management (3)**

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: minimum 2.50 cumulative GPA; and MIS 24053 or COMT 11000; and MIS 24056 or MATH 10041 or BMRT 21004.

### **34064 Manufacturing Resource Planning (3)**

Introduces students to the basic tools that operations managers use to inform their decisions on a daily basis. 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. Prerequisite: minimum 2.50 cumulative GPA and MIS 34060.

### **34065 Quality Assurance (3)**

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. Prerequisite: minimum 2.50 cumulative GPA and MIS 34060.

### **34070 Principles of Systems Development (3)**

Provides an overview of the information systems profession, a rigorous introduction to programming logic and language syntax and a framework for the IS curriculum. Prerequisites: MIS 24065.

**34080 Computer Programming for Business (3)**

Introduces a programming language currently used in business and industry for data processing, decision making and other information systems applications. Prerequisite: MIS 34070.

**34165 Dynamics of Leadership (3)**

Contemporary theories of management and leadership; practical application cases; personal assessment and opportunities to develop individual and group leadership. Prerequisite: minimum 2.50 cumulative GPA; and MIS 24163 or BMRT 11009.

**34175 Learning to Lead (3)**

Experiential class that meets for 5 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.

**34180 Human Resource Management (3)**

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: minimum 2.50 cumulative GPA; and MIS 24163 or BMRT 11009.

**34185 Individual and Group Behavior in Organizations (3)**

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.

**34280 Social Responsibility in the Workplace (3)**

Using a case-based approach to learning, this course provides information on what constitutes appropriate business behavior by examining the major business and nonbusiness factors that influence business policies and practices. Prerequisite: minimum 2.50 cumulative GPA; and MIS 24163 or BMRT 11009.

**44042 Network Theory and Applications (3)**

Presentation of current and emerging telecommunications services and networking technologies with emphasis on their strengths, limitations and business applications. Prerequisite: none.

**44043 Data Base Management Systems (3)**

The design, implementation and management of database management systems within organizations are studied from both theoretical and applied perspectives. Prerequisites: MIS 24060 and 24070.

**44044 Systems Analysis II (3)**

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 and 24070.

**44045 Information Systems Management (3)**

Management of information systems 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 24070; and one of the following computer information systems (CIS) major requirement courses: MIS 44042 or 44043 or 44048 and computer information systems (CIS) major.

**44048 Software Integration (3)**

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. Prerequisite: minimum 2.50 cumulative GPA and MIS 24060 and 24070 and computer information systems (CIS) major. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**44049 Network Management (3)**

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. Prerequisite: minimum 2.50 cumulative GPA and MIS 44042.

**44056 Statistical Models for Business Applications (3)**

The application of linear statistical models such as regression analysis of variance, analysis of covariance, and design of experiments for managerial decision problems. Prerequisite: minimum 2.50 cumulative GPA.

**44061 Operations Management and Control (3)**

Introduces the student to the key functions of an operations planning and control system, which provides 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. Prerequisite: minimum 2.50 cumulative GPA and MIS 34061.

**44062 Supply Chain Management (3)**

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 and coordination in the supply chain. Prerequisite: minimum 2.50 cumulative GPA and MIS 34064.

**44065 Strategies in Production and Operations Management (3)**

Senior project in industrial management. Applies concepts from all prior coursework to the solution of real and simulated operating problems. Prerequisite: minimum 2.50 cumulative GPA and MIS 44064. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**44066 Strategies in World Class Operations (3)**

Introduce the student to Lean Production methodology, often referred to as Japanese management. Prerequisite: senior standing.

**44091 Seminar in Human Resource Management (3)**

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.

**44093 Variable Title Workshop in Management and Information Systems (1-6)**

S/U grading. Prerequisite: minimum 2.50 cumulative GPA.

**44095 Special Topics (3)**

Special topics course that will be offered on a semester basis with different topics and different faculty involved each time the course is offered. Prerequisite: minimum 2.50 cumulative GPA and junior standing. Special course fees may be assessed.

**44096 Individual Investigation in Management (3)**

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.

**44150 Total Quality Management (3)**

Considers the application of sound management principles and theories needed for successful implementation of quality processes and systems. The course will be based on class discussion and cases. Prerequisite: minimum 2.50 cumulative GPA; and MIS 23163 or BMRT 11009; and business management (BMGT) major. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### **44183 Developing and Training Human Resources in Organizations (3)**

The focus of this course 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: minimum 2.75 cumulative GPA; and MIS 34180 or BMRT 21006; and special approval.

### **44191 Senior Research Seminar in Management (3)**

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.

### **44192 Internship in Management (3)**

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. Prerequisites: special approval.

### **44195 Advanced Topics in Human Resource Management (3)**

Advanced topics course that will be offered on a yearly basis. Topics can span the full range of HR functions. This course also can have a practicum format. Prerequisites: minimum 2.75 cumulative GPA; and MIS 34180 or BMRT 21006; and special approval.

### **44285 Integrated Business Policy and Strategy (3)**

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: enrolled in the College of Business Administration and minimum 2.50 cumulative GPA; and MIS 24163 or BMRT 11009.

### **44292 Internship in Information Systems (3)**

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 MIS 24070 and computer information (CIS) major and special approval.

## **Marketing (MKTG)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Marketing (MKTG)

### **25010 Marketing (3)**

Functions, institutions and basic problems in marketing goods and services from viewpoint of manager of business firm operating within social, economics and legal environment. Prerequisite: ECON 22060.

### **35015 Service Marketing (3)**

This course focuses on marketing a product that is primarily service rather than manufactured good. Service marketers must address a broad range of issues, including design of the service production process, recruitment and training of service providers, relationship marketing for customer retention and management of service quality. Prerequisite: MKTG 25010 or 35035 or BMRT 21050.

### **35030 Marketing Applications (3)**

Students learn and apply analytical, financial, statistical, written and oral communications skills to make real-world marketing decisions. Prerequisite: MKTG 25010 and marketing (MKTG) major.

### **35035 Consumer Behavior (3)**

This course covers consumer decision-making processes and psychological, sociological, cultural and economic factors influencing them. Analysis of marketing mix strategies and policies in a behavioral context. Prerequisite: MKTG 25010.

### **35050 Marketing Research (3)**

This course focuses 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 marketing (MKTG) major. Pre/corequisite: MKTG 35030.

### **35055 Internet Marketing (3)**

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 35035 or BMRT 21050.

### **40093 Variable Title Workshop in Marketing (1-6)**

Special topics in marketing. Hours of credit depend on scope of project. S/U grading. Prerequisite: special approval.

### **45045 Advertising and Promotion Management (3)**

This course increases students' understanding of advertising concepts as well as structure and functions of different "players" within the industry. It integrates marketing and advertising theory with application in advertising decision making. Prerequisite: MKTG 25010 or 35035 or BMRT 21050.

### **45046 Personal Selling and Sales Management (3)**

This course covers communication and successful selling, building relationships, ethics,

the buying process, prospecting, planning and making sales calls and sales management. Prerequisite: MKTG 25010 or 35035 or BMRT 21050.

### **45060 International Marketing (3)**

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. Prerequisite: MKTG 25010 or 35035 or BMRT 21050.

### **45071 Business Marketing and E-Commerce (3)**

This course covers relationship building, customer analysis and retention, market segmentation and strategy, purchasing and materials management, new product development and pricing. Prerequisite: MKTG 25010 or 35035 or BMRT 21050.

### **45082 Service, Retail and Web-Based Marketing (3)**

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 marketing (MKTG) major.

### **45084 Marketing Policies and Strategies (3)**

Capstone course for marketing majors. Course deals with marketing policies and strategies with emphasis on managerial decision-making case approach. Prerequisites: MKTG 35030 and marketing (MKTG) major and senior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### **45091 Marketing Seminar (3)**

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 35035 or BMRT 21050.

### **45096 Individual Investigation in Marketing (3)**

Independent investigation of appropriate problem undertaken by a senior marketing major. Prerequisite: special approval.

### **45292 Marketing Internship (3)**

Preparation of research report concurrent with on-the-job experience with cooperating business or other organization. Prerequisite: minimum 2.50 cumulative GPA; and MKTG 25010 or 35035 or BMRT 21050; and special approval.



## Managerial Marketing (MMTG)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Managerial Marketing

### 35011 Marketing Tools (3)

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: MIS 24053 and MKTG 25010 and managerial marketing (MMTG) majors. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### 35021 Research for Marketing Decisions (3)

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.

### 35023 Customer Analysis (3)

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. Prerequisites: MMTG 35011.

### 35024 Hands-on Technology Enhancement Laboratory (1)

Laboratory designed to expand student's abilities with spreadsheets, statistical packages and presentation software. Prerequisites: minimum 2.50 cumulative GPA; and MIS 24053 or COMT 11000; and MKTG 25010 or BMRT 21050; and managerial marketing (MMTG) major.

### 35026 Decision-Making Skill Enhancement Laboratory (1)

Laboratory designed to expand students' data interpretation, decision-making and creative problem-solving skills. Prerequisites: MMTG 35011.

### 45020 Competitive Market Analysis (3)

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.

### 45026 Personal Selling Methods and Practices Laboratory (1)

Laboratory 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.

### 45030 Channel Management (3)

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 and negotiations. Prerequisites: MMTG 35021 and 35023.

### 45039 Promotion Management (3)

Covers the promotional tools and their role in communicating with customers. Emphasis is on the selection, budgeting and implementation of promotional tools for smaller-sized enterprises. Prerequisites: MMTG 45020 and 45030.

### 45040 Integrated Marketing Strategy (3)

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. Prerequisite: MKTG 45020.

## Military Science (MSCI)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Military Science (MSCI)

### 10180 Introduction to Leadership I (1)

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 10191 (ROTC only).

### 10185 Introduction to Leadership II (1)

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).

### 10191 Leadership Seminar I (1)

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. S/U graded. Corequisites: MSCI 10180 and 10185.

### 20180 Survey of American Military History (1)

Traces North American military history, theory, doctrine, strategy and tactics from the pre-Revolutionary period to the present. Prerequisite: none.

### 20181 Leadership Assessment I (2)

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).

### 20183 Leadership Assessment II (2)

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).

### 20191 Leadership Seminar II (1)

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. Corequisites: MSCI 20180 or 20183.

### 20196 Individual Research (1 or 2)

Individual research projects in leadership, management techniques and MODE Program. Used ONLY for selected personnel for entry into the advanced program. Prerequisites: sophomore standing and special approval.

### 30160 Leadership Development (2)

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.

### 30170 Organizational Leadership (2)

Application of management fundamentals, decision theory and leadership principles to organizations. Emphasis in coordinating, directing and controlling organizations. Prerequisite: special approval. Corequisite: MSCI 30191.

### 30183 Leadership Practicum (1-4)

Practical application of leadership in the military team. Prerequisite: special approval.

### 30191 Leadership Seminar III (1)

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 30170.

### 40160 Military Management and Ethics (2)

Professional ethics and responsibilities of military leaders. Development of interpersonal and managerial communicative skills. Prerequisite: special approval. Corequisite: MSCI 40191.

### 40170 The Professional Military Officer, Management and Law (2)

Studies in professional officer development, the military justice system and the management of personnel resources. Prerequisite: special approval. Corequisite: MSCI 40191.



**40191 Leadership Seminar IV (1)**

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. Prerequisite: special approval. Corequisite: MSCI 40160 or 40170.

**40196 Individual Investigation (1-3)**

Individual research projects, reports and readings. Prerequisites: special approval and advanced program standing.

**Music (MUS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Music (MUS)

**11111 Music Rudiments (3)**

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.

**11121 Theory (3)**

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.

**11122 Theory (3)**

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.

**12211 Music of Western Cultures (2)**

Provides a basic understanding of the elements of music embedded in a survey of types of music cultivated in Western societies including folk, popular and classical. Prerequisite: music (MUS) or music education (MUED) major.

**12212 Music of Nonwestern Cultures (2)**

A survey of the musics of traditional Europe, Latin America, Asia, Africa and Oceania. Attention is given to listening skills, cultural context, organology, function and technical matters of style. May not earn credit for both MUS 12212 and 22121. Prerequisite: MUS 12211 and music (MUS) or music education (MUED) major.

**18611 Singer's Diction I (1)**

Foundational training and performance practice in phonetics and singing diction for the English, American, Ecclesiastical Latin and Italian vocal repertoire. Prerequisite: music (MUS) major.

**18612 Singer's Diction II (1)**

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.

**20295 Special Topics in Music (1-3)\***

(Repeated registration permissible) 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.

**21113 Music Production I (3)**

A practical introduction to digital audio production, study of basic computer assisted recording, editing and music production. Prerequisite: none.

**21114 Music Production II (3)**

A practical study of computer assisted composition and arranging covering MIDI, sequencing, synthesis, sampling and video synchronization. Prerequisite: minimum grade of C (2.0) in MUS 21113.

**21121 Music Theory to 1750 (3)**

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.

**21122 Music Theory From 1750 to 1900 (3)**

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. Prerequisites: MUS 21121 with a grade of C- (1.7) or better

**21221 Audio Recording I (3)**

A study of basic live and studio recording fundamentals and techniques, including signal flow, microphones and recording equipment. Prerequisite: none.

**21222 Audio Recording II (3)**

A study of multi-track miking and recording techniques, session setup and management, and elements required for the reference mix. Prerequisite: minimum grade of C (2.0) in MUS 21221.

**21341 Commercial Music Theory and Composition (3)**

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. Prerequisite: minimum grade of C (2.0) in MUS 11121 and 11122.

**22111 The Understanding of Music (3)**

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. Not open to music majors. Prerequisite: nonmusic majors. This course may be used to satisfy the Kent Core Requirements.

**22121 Music As a World Phenomenon (3)**

An introduction to music as a world phenomenon. Study of selected art, folk and popular musics from world cultures through live performances, tapes, films, video tapes and readings. No credit for both MUS 22121 and 12212. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**23111 Music Fundamentals (3)**

The study of pitch, rhythm, notation, structure and interpretation of music through performance on voice, melody instruments and accompanying instruments. Prerequisite: none.

**23241 Music Teaching As a Profession (2)**

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. Prerequisites: music (MUS) or music education (MUED) major and sophomore standing.

**25011 University Chorus (1)\***

(Repeated registration permissible) Choral ensemble which studies and performs sacred and secular music for mixed voices. Activities include performance on and off campus. Prerequisite: audition.

**25131 Opera: Singer-Actor Techniques (1)**

(Repeated registration permissible) Training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study, observation and rehearsal. Prerequisite: audition.

**25225 University Band (1)\***

(Repeated registration permissible) Study and performance of music literature for wind band appropriate for music majors and nonmajors. Prerequisite: none.

**25231 Jazz Ensemble (1)\***

(Repeated registration permissible) Study and performance of music literature for jazz ensemble appropriate for music majors and nonmajors. Prerequisite: none.

**25311 Chamber Music (1)\***

(Repeated registration permissible) The study and performance of music for small ensembles. Prerequisite: special approval.

**31111 Advanced Sight Singing (2)**

Advanced sight singing and ear training. Sight singing in five clefs emphasizing vocal and instrumental works from various periods including contemporary. Prerequisite: MUS 21122.

**31113 Music Production III (3)**

Continuation of Music Production II, advanced sequencing, synthesis and audio editing techniques as applied to music production. Focus is on arranging. Prerequisites: minimum grade of C (2.0) in MUS 21113 and 21114.

**31114 Music Production IV (3)**

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.

**31121 Western Music Since 1900 (2)**

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. Prerequisites: MUS 21122 and 32212 both with a grade of C- (1.7) or better.

**31211 Composition (2)**

(Repeated registration permissible) Original composition for instrumental and vocal solos and small ensembles using shorter musical forms. Prerequisite: music (MUS) or music education (MUED) major.

**31221 Audio Recording III (3)**

A study of the elements, functions and techniques of digital audio multi-track mixing. Prerequisite: minimum grade of C (2.0) in MUS 21222.

**31222 Audio Recording IV (3)**

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 21222.

**32211 Music History to 1750 (3)**

A survey of Western music history from the early Christian chants through the Baroque style. Prerequisite: MUS 12211 and 21121; and MUS 21122 with a grade of C- (1.7) or better; and junior standing.

**32212 Music History 1750 to 1900 (3)**

A survey of Western music history of the 18th and 19th centuries. Prerequisite: MUS 12211 and 21121 and 21122; and MUS 32211 with a grade of C- (1.7) or better; and junior standing. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**33111 Teaching Music in the Elementary Classroom (3)**

Study of music and related arts for the classroom. Development of music skills and strategies for teaching music to children in elementary schools. Three field/clinical hours are required. Prerequisites: MUS 23111, EDPF 28911, 29515, 29592 and CI 20000.

**33211 Elementary and Secondary General Music (3)**

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. Taken concurrently with MUS 33212. Prerequisite: music (MUS) major.

**33212 Teaching Skills in Music Education: General/Instrumental (1)**

Clinical experience in the teaching of general and instrumental music in the schools. Fifteen field/clinical hours required. Taken concurrently with MUS 33211 or 43231. Prerequisites: music (MUS) major and junior standing.

**33213 Teaching Skills in Music Education: Choral/Orchestral (1)**

Clinical experience in the teaching of choral and orchestral music in the schools. Fifteen field/clinical hours required. Prerequisites: music (MUS) or music education (MUED) major and junior standing. Corequisite: MUS 33231 or 43211.

**33214 Music Technology for Music Educators (1)**

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: special approval.

**33231 Elementary and Secondary Choral Music (3)**

Choral methods, rehearsal techniques, conducting skills and literature used in elementary and secondary schools. Sixty field/clinical hours required. Taken concurrently with MUS 33213. Prerequisites: MUS 23241 and 34111.

**34111 Elementary Conducting (2)**

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.

**35213 Studio Ensemble (1)**

(Repeatable for a total of 16 hours) 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. Prerequisite: special approval.

**36913 Applied Studio Musicianship (2-4)**

(Repeatable for a total of 16 hours) 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. Prerequisite: special approval.

**37113 Piano Skills for the Choral/General Music Educator (2)**

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals. Prerequisites: MUS 36111 with a minimum grade of C- (1.7); and special approval.

**37114 Piano Skills for the Instrumental Music Educator (1)**

Development of keyboard skills for practical purposes in the classroom and ensemble rehearsals. Prerequisites: MUS 17112 and 21122; and minimum score of 80 on the piano placement test.

**40092 Music Technology Internship (2)**

On-the-job experience with cooperating business in the field of music technology and preparation of a final report or an applicable project. Prerequisites: minimum grade of C (2.0) in MUS 41114 or 41222; and minimum cumulative 2.25 GPA; and music technology (MUST) major and special approval.

**40295 Special Topics in Music (1-3)**

(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: music (MUS) major.

**40296 Independent Study: Music (1-3)**

Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses. Repeatable for credit. Prerequisites: music major and special approval.

**41111 Practicum in Music Theory (2)**

Ear training, sight singing and analysis in preparation for graduate-level music theory coursework. Prerequisite: special approval.

**41113 Music Production V (3)**

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.

**41114 Music Production VI (3)**

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.

**41131 Keyboard Harmony (3)**

Theoretical skills demonstrated at the keyboard: harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation. Prerequisite: MUS 21122.

**41141 Sixteenth-Century Counterpoint (3)**

Two-, three-, and four-part vocal counterpoint in 16th-century style. Prerequisite: MUS 21122.

**41151 Eighteenth-Century Counterpoint (3)**

Technique of writing counterpoint in 18th-century style, especially that of J.S. Bach. Prerequisite: MUS 21122.

**41161 Advanced Musical Analysis (3)**

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.

**41181 Acoustics and Technology in Music (2)**

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.

**41199 Senior Project: Music Theory (3)**

Preparation and presentation of a senior thesis in the student's area of expertise. Prerequisite: special approval.

**41211 Composition (2-4)**

(Repeated registration permissible) 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.

**41221 Audio Recording V (3)**

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.

**41222 Audio Recording VI (3)**

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.

**41230 Introduction to Electronic Music (3)**

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.

**41231 Techniques of Electronic Music (3)**

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.

**41299 Senior Project: Music Composition (2)**

The final composition experience prior to graduation. A recital of individually composed works must be presented. Prerequisite: MUS 41211.

**41321 Orchestration (3)**

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of representative instrumental ensemble repertoire. Prerequisite: MUS 21122.

**41341 Jazz Improvisation (2)**

The development of the art of jazz improvisation through performance and analysis. Prerequisite: special approval.

**41342 Jazz Arranging (2)**

Arranging for the large and small jazz ensemble. Prerequisite: special approval.

**42111 African Music and Cultures (3)**

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.

**42131 America's Music (3)**

Historical survey of music in America from New England psalmody to present-day compositional trends. Prerequisite: none.

**42141 Folk and Traditional Music of Western Continents (3)**

Study of selected music cultures of Eastern and Western Europe, and South, Central and North America. Prerequisite: none.

**42151 Asian Musics (3)**

Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures. Prerequisite: none.

**42161 History of Jazz (3)**

The evolution of jazz from its origin to present. Prerequisite: none.

**42171 Music from World Cultures (3)**

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.

**42221 Symphonic Literature (3)**

Historical and stylistic survey of music for large instrumental ensemble. Prerequisite: MUS 21122.

**42222 Chamber Music Literature (3)**

Historical and stylistic survey of chamber music literature. Prerequisite: MUS 21122.

**42241 Piano Literature (3)**

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.

**42251 Song Literature (3)**

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.

**42261 Opera Literature (3)**

The historical development of opera from the 17th century to the present. Detailed analysis of representative works. Prerequisite: MUS 32212.

**42271 Choral Literature I (3)**

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.

**42272 Choral Literature II (3)**

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). Prerequisite: MUS 31121 with a minimum grade of C (2.0); and special approval from instructor.

**42357 Student Teaching and Seminar (9)**

The course provides a 15-week student teaching experience. Off-campus arrangements are handled by the School of Music. S/U grading; IP grade permissible. Prerequisite: music education (MUED) major and special approval. Corequisite: MUS 49525.

**43211 Secondary Instrumental Methods (3)**

Secondary instrumental instruction; program organization, planning, repair, methods, choosing music, materials and teaching techniques. Sixty field/clinical hours required. Prerequisites: MUS 23241 and special approval. Corequisite: MUS 33213.

### **43231 Elementary and Middle School Instrumental Method (3)**

Elementary and middle school instrumental instruction, program organization, rehearsal/teaching techniques, lesson plans, literature, budget/scheduling, recruiting. Sixty field/clinical hours required. Prerequisites: MUS 23241 and special approval.

### **43241 Marching Band Techniques and Literature (2)**

Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles literature and show design. Ten field/clinical hours are required. Prerequisite : special approval.

### **43242 Jazz Ensemble Techniques and Literature (2)**

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.

### **43243 Vocal Jazz and Musical Theatre in the Schools (3)**

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. Prerequisites: music (MUS) major and junior standing.

### **43244 Student Teaching Preparation (2)**

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.

### **44111 Choral Conducting and Arranging (3)**

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.

### **44121 Instrumental Conducting and Arranging (3)**

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.

### **45111 University Choir (1)**

(Repeated registration permissible) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment. Prerequisite: special approval.

### **45121 Kent Chorus (1)**

(Repeated registration permissible) Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment. Prerequisite: special approval.

### **45131 Opera: Singer-Actor Techniques (2)**

(Repeated registration permissible) Training in methods and skills necessary to the art of the singer-actor. Opera performed and prepared via study, observation and rehearsal. Prerequisite: audition.

### **45141 Kent State University Chorale (1)**

(Repeated registration permissible) 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.

### **45142 Men's Chorus (1)**

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: special approval.

### **45143 Women's Chorus (1)**

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: special approval.

### **45151 Kent State University Gospel Choir (1)**

(Repeated registration permitted) 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: none.

### **45212 Orchestra (1)**

(Repeated registration permissible) 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.

### **45221 Concert Band (1)**

(Repeated registration permissible) Study and performance of music literature for wind band. Prerequisite: special approval.

### **45222 Marching Band (1)**

(Repeated registration permissible) Study and performance of literature and maneuvers for

marching band. Prerequisite: special approval.

### **45223 Wind Ensemble (1)**

(Repeated registration permissible) 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.

### **45224 Basketball Band (1)**

(Repeated registration permissible) Study and performance of music for the basketball band. Prerequisite: special approval.

### **45225 University Band (1)**

(Repeated registration permissible) Study and performance of music literature for wind band appropriate for nonmusic majors, and for music education majors performing on secondary instruments. Prerequisite: none.

### **45231 Jazz Ensemble (1)**

(Repeated registration permissible) Study and performance of music literature in the jazz idiom. Prerequisite: special approval.

### **45241 Trombone Ensemble (1)**

(Repeated registration permissible) A thorough study of trombone performance in various-sized ensembles. Emphasis on original literature from over four centuries. Prerequisite: special approval.

### **45251 Percussion Ensemble (1)**

(Repeated registration permissible) 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: special approval.

### **45261 Bassoon Ensemble (1)**

(Repeated registration permissible) Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques. Prerequisite: special approval.

### **45271 New Music Ensemble (1)**

(Repeated registration permissible) Study and performance of 20th-century chamber music with an emphasis on works by contemporary composers. Prerequisite: special approval.

### **45281 Flute Ensemble (1)**

(Repeated registration permissible) 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: special approval/audition.

**45311 Chamber Music (1 or 2)**

(Repeated registration permissible) The study and performance of music for small ensembles. Prerequisite: special approval.

**45321 Accompanying (1 or 2)**

(Repeated registration permissible) Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One-hour credit for two hours of assigned accompanying weekly. Prerequisite: special approval.

**47014 Folk Guitar for the Music Educator (1)**

Development of basic folk guitar performance skills for music education majors. Prerequisites: music education (MUED) major and MUS 23111. Special fee: \$35—subject to change.

**47811 Instrument Class for the Choral/General Music Educator (1)**

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) major. Special fee: \$20 flat fee—subject to change.

**48111 Eurhythmics (1)**

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) major.

**48112 Eurhythmics (1)**

See MUS 48111. Prerequisite: MUS 48111.

**48211 Introduction to Piano Pedagogy (2)**

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) major and junior standing.

**48221 Elements of Accompanying I (2)**

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.

**48222 Elements of Accompanying II (2)**

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.

**48241 Voice Pedagogy (2)**

Survey of techniques, practices and materials of teaching voice. Prerequisite: special approval.

**48251 Pedagogy of Music Theory (2)**

The principles and techniques of teaching music theory. Prerequisite: MUS 21122.

**48257 Pedagogy—Instrumental (2)**

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: special approval.

**48393 Variable Title Workshop in Music (1-4)**

Offered for specific professional needs. Emphasis on performance and pedagogical skills. S/U grading. Prerequisite: special approval.

**48512 Improvisation (1)**

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.

**48598 Music Research (2-3)**

(Repeated registration permissible) Research or individual investigation for undergraduate students. IP grade permissible. Prerequisite: special approval.

**49525 Inquiry into Professional Practice (3)**

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. Prerequisites: music education (MUED) major and admission to student teaching

**Applied Music**

Students who plan to register for applied music for the first time must audition for the appropriate faculty member(s) prior to registering for the course.

Private applied music instruction: Privately instructed performance courses are offered each semester. Performance majors register for 4 credit hours, receive a one-hour lesson weekly and attend the weekly studio class of their major performing medium. Non-performance majors register for 2 hours of credit, receive one half-hour lesson weekly and attend the weekly studio class of their major performing medium. Students must be a music (MUS) or music education (MUED) major. Applied music study for non-majors and non-minors is subject to faculty and studio availability and may be elected only with the special approval of the School of Music.

The following courses are either 2 or 4 credit hours. Students electing 2 credits pay \$100 per semester; students electing 4 credits pay \$200 per semester.

36111, 46111—Piano  
36311, 46311—Voice  
36411, 46411—Violin  
36412, 46412—Viola

36413, 46413—Cello  
36414, 46414—Double Bass  
36511, 46511—Flute  
36512, 46512—Oboe  
36513, 46513—Clarinet  
36514, 46514—Bassoon  
36515, 46515—Saxophone  
36611, 46611—Trumpet  
36612, 46612—Horn  
36613, 46613—Trombone  
36614, 46614—Euphonium  
36615, 46615—Tuba  
36711, 46711—Percussion  
36912, 46912—Guitar

Class Instruction: Classes in piano, voice, strings, woodwinds, brasses and percussion are available. The prerequisite for each course is cited in the Catalog description. The instruction fee ranges from a \$20 to \$120 flat fee.

**17011, 17012 Piano Class for Non-music Students (2 each)**

Development of basic skills required in playing piano, including familiarity with the keyboard and music notation. Prerequisite: MUS 17011—none; 17012—MUS 17011 or audition. Special fee: \$45 flat fee—subject to change.

**17111 Piano Class (1)**

Preparatory piano. Credit not acceptable on music major sequences. Piano literature and functional elements of sight-reading, transposition, harmonization and improvisation. Prerequisite: special approval. Special fee: \$35 flat fee—subject to change.

**17112 Piano Class (1)**

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. Special fee: \$35 flat fee—subject to change.

**27111 Piano Class (2)**

Continuation of piano classes. Credit acceptable on music major and minor sequences. Prerequisite: MUS 17111 with a grade of C (2.0) or better. Special fee: \$45 flat fee—subject to change.

**27112 Piano Class (2)**

Continuation of piano classes. Credit acceptable on music major and minor sequences. Prerequisite: MUS 27111. Special fee: \$45 flat fee—subject to change.

**36111 Applied Music—Piano (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual study. Prerequisite: music (MUS) or music education (MUED) major.



**36311 Applied Music—Voice (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36411 Applied Music—Violin (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36412 Applied Music—Viola (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36413 Applied Music—Cello (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36414 Applied Music—Double Bass (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36511 Applied Music—Flute (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36512 Applied Music—Oboe (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36513 Applied Music—Clarinet (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36514 Applied Music—Bassoon (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36515 Applied Music—Saxophone (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music

majors and minors. Individual instruction.

Prerequisite: music (MUS) or music education (MUED) major.

**36611 Applied Music—Trumpet (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36612 Applied Music—Horn (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36613 Applied Music—Trombone (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36614 Applied Music—Euphonium (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36615 Applied Music—Tuba (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36711 Applied Music—Percussion (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**36912 Applied Music—Guitar (2 or 4)**

A comprehensive study of performance, technique and repertoire appropriate to music majors and minors. Individual instruction. Prerequisite: music (MUS) or music education (MUED) major.

**37111 Functional Piano (2)**

Development of keyboard facility for practical purposes in classroom. Credit-By-Exam with departmental approval. Prerequisite: MUS 21122. Special fee: \$45 flat fee—subject to change.

**40296 Independent Study: Music (1-3)**

(Repeated registration permissible) Individual investigation in music topics not offered as either regular coursework or beyond the scope of existing music major courses. Prerequisite: music (MUS) major and special approval.

**47012 Folk Guitar Class I (2)**

Development of basic folk guitar performance skills. Prerequisite: none. Special fee: \$45 flat fee—subject to change.

**47013 Folk Guitar Class II (2)**

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. Special fee: \$45 flat fee—subject to change.

**47311 Voice Class (1)**

Class instruction in the fundamentals of correct breathing, tone production and diction. Prerequisite: none. Special fee: \$35/credit hour—subject to change. Special fee: \$35 flat fee—subject to change.

**47411 String Class (1)**

(Repeatable for a total of 3 credit hours) Class lessons in basic playing skills, methodology, teaching materials and maintenance of string instruments to enable the student to teach string classes in public schools. Prerequisite: music (MUS) major. Special fee: \$35 flat fee—subject to change.

**47511 Woodwind Class (1)**

(Repeatable for a total of 3 credit hours) Study of fundamental principles of performance on woodwind instruments; methods and materials for class and private instruction. Prerequisite: music (MUS) major. Special fee: \$35 flat fee—subject to change.

**47611 Brass Class (1)**

(Repeatable for a total of 3 credit hours) 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) major. Special fee: \$35 flat fee—subject to change.

**47711 Percussion Class (1)**

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) major. Special fee: \$35 flat fee—subject to change.  
\* Course ineligible to be repeated for GPA recalculation.

## Nursing Technology (NRST)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Nursing Technology (NRST)

### **Courses offered only at Regional Campuses.**

All nursing courses must be taken in sequence. Students must complete 36 credit hours of the nursing curriculum with a cumulative 2.00 GPA to progress to the second year of the nursing program.

Students must achieve a C grade (2.0) or better in each nursing course in order to progress in the nursing sequence.

The Associate Degree in Nursing program, Regional Campuses, Kent State University, reserves the right to initiate changes in the program as deemed necessary for maintaining quality nursing education.

### **10001 Foundations of Nursing Agency (5)**

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. Special fee: \$176 flat fee—subject to change.

### **10002 Introduction to Nursing Process (1)**

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.

### **10003 Nursing Agency I (6)**

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 all of the following: BSCI 20020; and CHEM 10054 or CHEM 10050 and 10052; US 10097; and NRST 10001. Cumulative GPA of 2.0; and nursing technology (NRST) major. Special fee: \$211 flat fee—subject to change.

### **10004 Older Adult Developmental Self-Care (2)**

Age-related and pathological changes of aging. Includes nursing care approaches for older patients with health deviations. Prerequisites: admission to the nursing (NRST) program and a cumulative GPA of 2.0 or higher.

### **10005 Therapeutic Use of Self (2)**

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 all of the following: BSCI 20020; and CHEM 10054 or CHEM 10050 and 10052; and NRST 10001 and 10002. Cumulative GPA of 2.0; and nursing technology (NRST) major.

### **10006 Transitions in Nursing Agency (3)**

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: minimum grade of C (2.0) in all of the following: BSCI 20020 and 20021 and 20022; and CHEM 10050 and 10052; or 10054. Cumulative GPA of 2.7 or higher and nursing technology (NRST) major.

### **10007 LPN to ADN Bridge Course (2)**

Course includes content areas from first-year nursing courses not covered in the statewide Articulation Model (NRST 10006 Transitions in Nursing). Prerequisite: nursing technology (NRST) or pre-nursing (PADN) major and special approval from ADN director.

### **10008 Paramedic to Associate Degree in Nursing Transition (5)**

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 in the ADN program. Prerequisite: nursing technology (NRST) majors.

### **20206 Nursing Agency II (5)**

Nursing care of adults with intermediate therapeutic self-care demands. Emphasis is placed on the nurse as a provider of care. Prerequisites: NRST 10003; and BSCI 20021 and 20022; and PSYC 11762; and NUTR 33512; and cumulative GPA of 2.0 or better; and nursing technology (NRST) major. Special fee: \$176 flat fee—subject to change.

### **20207 Psychosocial Self-Care Deficits (4)**

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. Prerequisites: NRST 10003; and BSCI 20021 and 20022; and PSYC 11762; and NUTR 33512; and cumulative GPA of 2.0 or better; and nursing technology (NRST) major.

### **20208 Nursing Agency III (6)**

Nursing care of individuals with complex therapeutic self-care demands. Emphasis is placed on the nurse as provider and manager of patient care. Prerequisites: minimum grade of C (2.0) in NRST 20206 and 20207; and NURS 20950; and ENG 11011 or HONR 101097; and SOC 12050; and cumulative GPA of 2.0 or higher; and nursing technology (NRST) major. Special fee: \$211 flat fee—subject to change.

### **20209 Maternal/Newborn Development Self-Care (2)**

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 NURS 20950; and BSCI 20021 and 20022; and PSYC 11762; and NUTR 33512; and cumulative GPA of 2.0 or better; and nursing technology (NRST) major.

### **20210 Child and Family Development Self-Care (2)**

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 20207; and NURS 20950; and ENG 11011 and SOC 12050 and a cumulative GPA of 2.0 or higher.

### **20211 Contemporary Nursing Issues (1)**

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. Prerequisites: NRST 20206 and 20207; and NURS 20950; and ENG 11011 or HONR 10197; cumulative GPA of 2.0 or higher; and nursing technology (NRST) major.

### **21095 Special Topics (2-4)\***

Scheduled topic of interest to students and faculty. Prerequisites: none.

### **21096 Individual Investigation in Nursing (1-3)\***

(Repeatable for a total of 18 hours) Readings and/or investigation of nursing topics supervised by nursing faculty. S/U grading. Prerequisite: special approval of director.

*\*Course ineligible to be repeated for GPA recalculation.*

## Nursing (NURS)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Nursing (NURS)

### **10050 Introduction to Professional Nursing (1)**

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. Special fee: \$20 flat fee—subject to change.

### **20010 Interpersonal and Communication Skills for Health Professionals (2)**

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: sophomore standing and nursing (NURS) major. Special fee: \$20 flat fee—subject to change.

### **20020 Foundations of Assessment and Communication in Nursing (3)**

Individuals are assessed as members of families and community members. Communication in nursing is explored. Prerequisite: special approval. Special laboratory fee: \$70.50 flat fee—subject to change.

### **20030 Foundations of Nursing Interventions (5)**

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 20020 and 20950 and BSCI 20020 with a grade of C (2.0) or better. Special laboratory fee: \$100 flat fee—subject to change.

### **20160 Nursing Process (2)**

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. Prerequisites: sophomore standing and nursing (NURS) major and special approval.

### **20950 Human Growth and Development for Health Professionals (3)**

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.

### **21095 Special Topics (2-4)\***

(Repeated registration permissible) Scheduled topics of interest to faculty and students. Prerequisite: sophomore standing.

### **21096 Individual Investigation (2-4)\***

(Repeated registration permissible) Designed for the student interested in exploration and research of material not covered in required nursing courses. Prerequisites: sophomore standing and

special approval.

### **30010 Parent and Newborn Nursing (4)**

A study of nursing assessment, need identification and evaluation for individuals and families during the child-bearing cycle. Prerequisites: NURS 20030 and 20950 and BSCI 30030 with a grade of C (2.0) or better. Corequisite: NURS 30020. Special laboratory fee: \$89 flat fee—subject to change.

### **30020 Health Care of Children (4)**

Nursing process in family-centered care of children including health and developmental promotion and illness and restorative intervention. Prerequisites: NURS 20030 and 20950 and BSCI 30030 with a grade of C (2.0) or better. Corequisite: NURS 30010. Special laboratory fee: \$89 flat fee—subject to change.

### **30030 Nursing of Adults (5)**

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 20950 and BSCI 30030 with a grade of C (2.0) or better. Corequisite: NURS 30040. Special laboratory fee: \$100 flat fee—subject to change.

### **30040 Nursing of Adults with Rehab Needs and/or Gerontologic Changes (4)**

This course encompasses care of persons and families dealing with gerontologic changes and/or rehabilitation needs. Prerequisites: NURS 20030 and 20950 and BSCI 30030 with a grade of C (2.0) or better. Corequisite: NURS 30030. Special laboratory fee: \$89 flat fee—subject to change.

### **30050 Basic Nursing Informatics (2)**

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. Special fee: \$20 flat fee—subject to change.

### **30060 Basic Pharmacology for Nursing Practice (2)**

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 a grade of C (2.0); and BSCI 30030. Special fee: \$20 flat fee—subject to change.

### **30063 Spiritual Care of Patients (2)**

Study of the spiritual needs of patients and the nurse's role with regard to these needs. Prerequisites: NURS 20950.

### **31095 Special Topics (2-4)**

(Repeated registration permissible) Scheduled topics of interest to faculty and students. Prerequisites: NURS 20950.

### **31096 Individual Investigation (2-4)**

(Repeated registration permissible) Designed for the student interested in exploration and research of material not covered in required nursing courses. Prerequisites: special approval.

### **40005 Professional Nursing Development (3)**

Course focuses on professional development and the transition from student to graduate nurse, including interviewing techniques and resume preparation. Classes explore 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. Prerequisite: NURS 20010 and 30010 and 30030 and 30040 and 30050 and 30060 all with a minimum grade of C (2.0). Special fee: \$20 flat fee—subject to change. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

### **40010 Nursing of the Critically Ill (4)**

Holistic approach to assessing, intervening and evaluating critically ill persons. Nursing practice in critical care settings with diverse populations. Prerequisites: NURS 30010 and 30030 and 30040 and 30050 and 30060 all with a grade of C (2.0) or better. Corequisite: NURS 40045. Special laboratory fee: \$89 flat fee—subject to change.

### **40020 Community Health Nursing (4)**

Concepts of community health nursing with emphasis on health promotion and prevention of population-based health problems. Students are responsible for own transportation to field experience. Prerequisites: NURS 30010 and 30020 and 30030 and 30040 and 30050 and 30060 all with a grade of C (2.0) or better. Corequisite: NURS 40030. Special laboratory fee: \$89 flat fee—subject to change.

### **40030 Psychiatric Nursing and Mental Health Nursing Care (4)**

Focuses on the development of therapeutic relationships with individuals, families and vulnerable populations across the life span who have potential and/or identified mental health needs. Students will learn and apply theory about mental health illness. Prerequisites: NURS 30010 and 30020 and 30030 and 30040 and 30050 and 30060 all with a grade of C (2.0) or better. Corequisite: NURS 40020. Special laboratory fee: \$89 flat fee—subject to change.

#### **40045 Integration of Leadership and Management in Nursing (6)**

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 30010 and 30020 and 30030 and 30040 and 30050 and 30060 with a grade of C (2.0) or better. Corequisite: NURS 40010. Special fee: \$110.50 flat fee—subject to change.

#### **40057 Case Management in Healthcare Agencies (2-3)**

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.

#### **40061 Physical Assessment (2)**

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.

#### **40062 Nurse Externship in Nursing Practice (4)**

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.

#### **40075 Information and Patient Care Technology for Professional Nursing Practice (3)**

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.

#### **40085 Inquiry and Research for Professional Nursing Practice (3)**

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. Prerequisites: MATH 10041; or PSYC 21621; or SOC 32220 and 32221; and nursing (NURS) major and special approval. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

#### **40872 Introduction to Nursing Research (3)**

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 32220. Special fee: \$20 flat fee—subject to change.

#### **41000 Nursing Concepts and Professional Nursing Role Development (3)**

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.

#### **41095 Special Topics (2-4)**

(Repeated registration permissible) Scheduled topics of interest to faculty and students. Topics to be announced when scheduled. Prerequisite: none.

#### **41096 Individual Investigation (2-4)**

Designed for the student interested in exploration and research of material not covered in required nursing courses. Prerequisites: NURS 30160 and 30361 and 30462 and 30870.

#### **42000 Leadership/Management for the Professional Nurse (3)**

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. Student taking the course must be registered nurses. Prerequisite: nursing (NURS) major.

#### **43000 Health Promotion for Professional Nursing Practice (3)**

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 (Healthy 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. Prerequisites: BSCI 20020 and 20021; and CHEM 10050 and 10052; and nursing (NURS) major.

#### **44000 Population based Nursing for Professional Nursing Practice (5)**

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. Prerequisite:

BSCI 20020 and 20021; and CHEM 10050 and 10052; and nursing (NURS) major.

#### **45000 Health Maintenance and Restoration for Professional Nursing Practice (3)**

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.

#### **46000 Health Care Policy (3)**

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, organization, 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 standing.

#### **47000 Capstone Clinical for Professional Nursing Practice (3)**

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 nursing (NURS) major. Pre/corequisites: NURS 40085 and 42000 and 43000 and 44000 and 45000 and 46000.

*\* Course ineligible to be repeated for GPA recalculation.*

#### **Nutrition and Dietetics (NUTR)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Nutrition and Dietetics (NUTR)

#### **10011 Nutrition Outreach: A How-to for Life-long Healthy Eating (1)**

(Repeatable up to 3 credit hours) 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.

**23112 Introduction to the Profession: Nutrition and Dietetics (1)**

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.

**23511 Science of Human Nutrition (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**33512 Nutrition (3)**

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 10061 and 20481; or CHEM 10050 and 10052; or CHEM 10054.

**33522 Applied Nutrition (3)**

Application of nutrition principles including nutrition assessment, charting of medical records, interviewing, counseling, nutrition education, food exchange lists, nutrition surveys and dietary standards. Nutrition and dietetics majors only. Prerequisites: NUTR 23511 and PSYC 11762 and SOC 12050.

**41092 Practicum in Nutrition (2-4)**

Directed professional training experiences in the field of nutrition and dietetics. Prerequisite: special approval.

**41093 Workshop in Nutrition (1-3)**

Workshop setting dealing with a topic or topics in the field of nutrition and dietetics. S/U grading. Prerequisite: none.

**41095 Special Topics in Nutrition (1-4)**

Discussion of a major topic within a specific field in nutrition and dietetics. Prerequisite: written special approval from instructor.

**41096 Individual Investigation in Nutrition (1-3)**

Independent study in nutrition and dietetics. Prerequisite: written special approval from instructor.

**43013 Experimental Methods in Nutrition (3)**

Students gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing are applied. Prerequisite: NUTR 33512. Special fee: \$6.66/credit hour—subject to change. This course

may be used to satisfy the writing-intensive course requirement with approval of major department.

**43016 Cultural Aspects of Food, Nutrition and Health (3)**

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.

**43512 Advanced Nutrition I (3)**

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.

**43513 Advanced Nutrition II(3)**

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.

**43514 Clinical Dietetics (4)**

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 43513.

**43515 Community Nutrition (3)**

Introduction to nutrition problems and practices in the community. Study of legislation, philosophies, management strategies and agencies affecting nutritional care. Prerequisites: NUTR 33522 and 43513.

**43518 Maternal and Child Nutrition (3)**

Nutrition requirements and problems: pregnancy, lactation, childhood and adolescence. Prerequisite: NUTR 33512.

**43520 Nutrition for Fitness (3)**

This course will explore the relationship between nutrition, health and exercise. Dietary change for improved health and fitness will be discussed as well as the impact of diet and exercise on body composition and weight. Prerequisite: NUTR 33512.

**43521 Food Choices for Prescribed Dietary Modification (2)**

Adapting adequate normal diet in terms of food choices to accommodate prescribed food restriction or bodily dysfunction. Not open to dietetic majors. Prerequisite: NUTR 23511.

**43523 Nutrition and Dietetics: Professional Practice (1)**

Development of professional awareness. Evaluation of professional growth and formulation

of plans for continued growth. Prerequisite: Nutrition (NUTR) major and senior standing.

**43532 Methods and Experiences in Nutrition Outreach (3)**

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.

**Occupational Therapy Assistant Technology (OCAT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Occupational Therapy Assistant Technology (OCAT)

*Courses offered only at Regional Campuses.*

**10000 Foundations in Occupational Therapy 2)**

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.

**10001 Occupational Therapy Practice Skills II (3)**

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. Special fee—\$25 flat fee—subject to change.

**10002 Therapeutic Techniques I—Psychosocial (5)**

Application of occupational therapy skills and techniques in treatment programs, concerned with psychosocial dysfunction. Prerequisites: minimum grade of C (2.0) in OCAT 10000 and occupational therapist assistant technology (OCAT) major and special approval.

**10003 Occupational Therapy Practice Skills Laboratory (1)**

Development of basic assessment and intervention skills as related to clients with physical and mental disabilities. Prerequisite: occupational therapist assistant technology (OCAT) majors.



**20000 Therapeutic Techniques II—Physical Dysfunction I (5)**

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.

**20001 Professional Issues in Occupational Therapy (2)**

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. Prerequisite: OCAT 10002 and special approval.

**20003 Occupational Therapy Practice Skills III(3)**

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. Special fee: \$25 flat fee—subject to change.

**20004 Therapeutic Techniques III—Developmental Disabilities (3)**

Application of occupational therapy skills and techniques applied to patients/clients with developmental disabilities. Prerequisite: OCAT 20000.

**20005 Clinical Applications (8)**

(320 clinical laboratory hours) Under the supervision of personnel in selected health care agencies, the student will apply knowledge, skills and techniques acquired in prior and concurrent OCAT courses. Prerequisite: minimum grade of C (2.0) or better in OCAT 10000 and 10001 and 10002 and 20000 and 20001 and 20003 and 20004 and 20006 and occupational therapist assistant technology (OCAT) major and special approval.

**20006 Therapeutic Techniques IV- Physical Dysfunction II (3)**

Continued application of occupational therapy skills and techniques in treatment programs in the area of physical dysfunction. Prerequisite: minimum grade of C (2.0) in OCAT 10002 and 20000 and PTST 10002 and occupational therapy assistant technology (OCAT) major.

**21095 Special Topics in Occupational Therapy Assistant Technology (1-4)**

Special topics in occupational therapy assistant technology; topics announced when scheduled. Prerequisite: occupational therapy assistant technology (OCAT) major.

**21096 Individual Investigation in Occupational Therapy Assistant Technology (1-4)**

Individual study in occupational therapy assistant technology and related fields; open to OCAT

majors. Prerequisite: occupational therapy assistant technology (OCAT) major.

**Office of International Affairs (OIA)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) >

Office of International Affairs (OIA)

**10095 Special Topics: Study Abroad (0-20)\***

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.

*\*Course ineligible to be repeated for GPA recalculation.*

**Pan-African Studies (PAS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) >

Pan-African Studies (PAS)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

**10101 Elementary Kiswahili I (4)**

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.

**10102 Elementary Kiswahili II (4)**

Continuation of PAS 10101, aimed at advancing students' knowledge and communication skills in Kiswahili by introducing Kiswahili literature—short narratives, proverbs and folktales. Prerequisite: PAS 10101.

**13001 Foundations of Pan-African Studies I (3)**

This interdisciplinary course provides a fundamental understanding of what constitutes the Pan-African world. Prerequisite: none.

**13002 Foundations of Pan-African Studies II (3)**

This interdisciplinary course will introduce students to the study of the African diaspora. Prerequisite: none.

**13201 Elementary Yoruba I (4)**

This course is an introduction to Yoruba in which students will learn the essentials of this West African language that is also spoken in Cuba and Brazil. Students will learn tonal pronunciation and cultural conversation. Prerequisite: none.

**13202 Elementary Yoruba II (4)**

Continuation of PAS 13201, with emphasis on tonal pronunciation, cultural conversation and basic reading and writing skills. Prerequisite: PAS 13201.

**20101 Kiswahili III (3)**

Continuation of Kiswahili II, aimed at developing knowledge, competence and recognition of Kiswahili usage in all forms of Kiswahili literature. Prerequisite: PAS 10102.

**20102 Kiswahili IV (3)**

Continuation of Kiswahili III, aimed at developing knowledge, competence and recognition of Kiswahili usage in all forms of Kiswahili literature. Prerequisite: PAS 20101.

**20200 Recovering the Past: Kent to Memphis (3)**

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.

**22000 African World Creative Writing (3-6)**

Focus on creative writing and performance in the mode and performance styles of people of African descent. Students will write, perform, critique and produce original works. Prerequisite: ENG 21011.

**22101 African-American Visual Artists (3)**

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.

**22200 Introduction to the African Arts (3)**

Investigation of function of creative forms of artistic expression particular to experiences of Pan-African community at home and abroad. Prerequisite: none.

**22201 Expressivity in African Arts (3)**

An African-centered examination of the process and profession of African traditional visual artists; emphasis on sculpture, pottery, fabric, textile design, embroidery, mural decorations in two- and three-dimensional finishes. Prerequisite: PAS 22200.

**23001 Black Experience I: Beginnings to 1865 (3)**

Study and analysis of the African experience prior to, and following, the arrival of Africans in the New World. Emphasis on North America, South America, Africa and Caribbean. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**23002 Black Experience II: 1865 to Present (3)**

The second of two parts, this course covers the period 1865 to present and is a continuation of PAS 23001. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**23201 Intermediate Yoruba I (3)**

Continuation of PAS 13202, aimed at developing further competency in reading, writing and speaking. Prerequisites: PAS 13201 and 13202.

**23202 Intermediate Yoruba II (3)**

Continuation of PAS 23201, aimed at advanced competency speaking, writing and reading. Prerequisite: PAS 23201.

**24000 Black Short Story (3)**

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.

**24407 Caribbean Studies (3)**

Focus on people of African descent in the West Indies, their way of life and the cultural contributions made to Pan-African communities. Prerequisite: PAS 23001 or 23002. This course may be used to satisfy the diversity requirement.

**26000 The Legacy of Slavery (3)**

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.

**30010 African and African-American Philosophies (3)**

(Cross-listed with PHIL 31070) 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. This course may be used to satisfy the diversity requirement.

**31000 Writing on the Pan-African Community Theatre (3)**

This course prepares students to write and publish theatre reviews relevant to Pan-African theatre productions. Students learn the context, content and aesthetics that contribute to the uniqueness of Pan-African theatre. Prerequisite: none.

**31092 Practicum in African Theatre Arts (3-6)**

(Repeatable for a maximum of 12 hours) Exposes students to fundamental techniques of stage through auditory, visual and physical participation. Students are evaluated in performance and related theatre activities. Prerequisite: special approval. Special fee: \$25/credit hour—subject to change.

**32001 African-American Literature to 1900 (3)**

(Cross-listed with ENG 33010) 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.

**32002 Modern African-American Literature (3)**

(Cross-listed with ENG 33012) 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.

**32010 The Pan-African Essay (3)**

Analyzes expository writing by historic and contemporary Pan-African essayists and incorporates various approaches and techniques into student writing. Prerequisite: ENG 21011. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**32050 African Literatures (3)**

(Cross-listed with ENG 33015) 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.

**33100 African-American Family in Historical Perspectives (3)**

Examines social, political, cultural and historical factors which have influenced the development of African-American family organization from African shores through the American experience. Prerequisite: PAS 23002. This course may be used to satisfy the diversity requirement.

**33101 African American History: Slavery to Freedom (3)**

(Cross-listed with HIST 31080). 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.

**33102 African American History: Reconstruction to the Present (3)**

(Cross-listed with HIST 31081). 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: PAS 33101 or HIST 31080.

**33110 The Black Woman: Historical Perspectives (3)**

This 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: PAS 23002. This course may be used to satisfy the diversity requirement.

**33120 The African-American Man in Contemporary Society (3)**

Focuses on various roles of the African-American man within the context of the African experience and the African diaspora. Prerequisite: PAS 23002.

**33171 The African-American Community (3)**

Explores problems of African-American communities: public administration, transportation, health, public finance, crime and justice, geography/Black demography and education. Prerequisite: PAS 23002. This course may be used to satisfy the diversity requirement.

**33200 Ancient African Cultures (3)**

This course will be an introduction to the ancient cultures of Africa and their contributions to world civilization. Prerequisite: none.

**33203 Kiswahili Conversation (3)**

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.

**33310 Latinos, the African Diaspora and American Society (3)**

Introduction to Latino minorities. Focus on Mexican-Americans, Puerto Ricans and Cubans, and African influences on Latino culture. Prerequisite: none. This course may be used to satisfy the diversity requirement.

**33508 Caribbean Social and Political Directions (3)**

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.

**34000 Introduction to African World View (3)**

Investigates traditional African cosmological world views and aesthetics in global Africa. Prerequisite: PAS 23001 and 23002. This course may be used to satisfy the diversity requirement.

**35100 African-American Social, Political, and Economic Systems (3)**

An Afrocentric approach to the interrelated social, political and economic systems of people of African descent. Prerequisite: junior standing.

**35200 African Social, Political, and Economic Systems (3)**

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.

**36210 African Traditional Architectural Settings (3)**

An African exploration of the interplay among African worldviews, oratures and the artistry and aesthetics of traditional African communal structures. Prerequisite: none.

**37000 Oral and Written Discourses in Pan-African Studies (3)**

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. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**37100 Pan-African Women's Literature (3)**

(Cross-listed with ENG 33013) Introduces students to literary works by African and Caribbean women. Prerequisite: ENG 11011 or HONR 10197.

**37010 Research Methods in Pan-African Studies (3)**

This course will expose students to the basic components of research methods in Pan-African studies utilizing multidisciplinary approaches. Prerequisite: PAS 37000.

**37020 Pan-Africanism and the Model African Union (3)**

Critical examination of Pan-Africanism in the development of the Organization of African Unity (OAU), now African Union (AU). Students prepare to participate as mock delegates in the annual Model OAU/AU Summit. Prerequisite: PAS 13001 or 23002. Special fee: \$150 flat fee—subject to change.

**37143 The African-Brazilian Experience in Culture and Literature (3)**

(Cross-listed with HIST 31143 and MCLS 37143) 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. This course may be used to satisfy the diversity requirement.

**37200 African-American Women's Literature (3)**

(Cross-listed with ENG 33014) Introduces students to literary works by African-American women. Prerequisite: ENG 11011 or HONR 10197.

**40080 Pedagogy for Pan-African Studies (3)**

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: PAS 40120.

**40120 Contemporary Issues in African-American Education (3)**

This course examines the interrelationship of contemporary issues and the education of people of African descent. Prerequisite: PAS 13002 or 23002.

**41192 Practicum in African-American Affairs (1-12)**

(Repeatable for a total of 12 hours) Guided involvements in urban areas with large African-American populations to provide experience with community service, government agencies, public and private schools, self-help organizations, etc. IP grade permissible. Prerequisite: junior or senior standing.

**42095 Special Topics in the Literature of Pan-Africa (3)**

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. Prerequisites: none.

**42500 Black Education in America (3)**

(Repeatable for a maximum of 6 hours) Analyzes the historical, social and political perspectives of educating people of African descent in America. Prerequisite: PAS 13002 or 23002.

**43095 Special Topics in Pan-African Literature, Arts and Cultures (3)**

Broadens upper-division offerings in holistic study and performance in Pan-African literatures, arts and cultures. Prerequisites: none.

**43300 Afro-Latin America (3)**

(Cross-listed with HIST 42142). 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.

**43320 Politics of Culture (3)**

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. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**43395 Special Topics in African Diaspora Studies (3)**

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. Prerequisites: none.

**45095 Special Topics in Pedagogy in Pan-African Studies (3-12)**

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.

**47010 Theoretical Approaches to Pan-African Studies (3)**

A critical analysis of the diverse approaches and underlying principles of Pan-African Studies. Prerequisite: senior standing.

**47091 Senior Seminar in Pan-African Studies (3)**

Students develop individual topical PAS research papers for presentation before departmental faculty, students and general public. IP grade permissible. Prerequisite: Pan-African studies (PAS) major and junior or senior standing. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**47095 Special Topics in Theoretical and Applied Research (3)**

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. Prerequisites: none.

**47150 The Underground Railroad (3)**

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 13002 or 23002.

**49093 Variable Title Workshop in PAS (2-6)**

S/U grading. Prerequisite: special approval.

**49095 Selected Topics (2 or 3)**

Scheduled topic announced. Intended to encourage further study in areas not treated adequately in standard courses. Offered irregularly by available or visiting faculty. IP grade permissible. Prerequisite: none.

**49096 Individual Investigation (1-3)**

(Repeatable once for credit) Research in areas of interest not available in departmental courses. Approval by faculty member or chairperson necessary prior to registration. IP grade permissible. Prerequisite: junior or senior standing.

## Physical Education Basic (PEB)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Physical Education Basic (PEB)

### 10001 Adapted Physical Education (2)

Physical education foundations and activities adapted to the capabilities and needs of the handicapped student. Recommended by Kent Health Center. Prerequisite: special approval.

### 10020 Development and Conditioning (1)

Introduction to the principles of physical training. Practical application of these principles through a variety of activities. Prerequisite: none.

### 10035 Lifetime Fitness (2)

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.

### 10036 Fitness Walking (1)

Application of sound training methods to achieve personal cardiovascular fitness through participation in a walking program. Prerequisite: none.

### 10095 Selected Topics: Physical Education Activities (1-2)\*

Prerequisite: none. Special course fee may be assessed.

### 10102 Beginning Swimming (1)

No or minimal swimming ability. Prerequisite: special approval.

### 10103 International Folk Dance (1)

Prerequisite: none.

### 10106 Downhill Skiing—Specialization (1)

Five days of intensive skiing at commercial establishment with skill instruction and related lectures. Transportation, lodging, rental, lift fees are assessed. S/U grading. Prerequisite: none.

### 10125 Basketball (1)

Prerequisite: none.

### 10126 Basketball—Varsity (1)\*

Special approval required.

### 10202 Intermediate Swimming (1)

Prerequisite: PEB 10102.

### 10204 Badminton (1)

Prerequisite: none.

### 10304 Bowling (1)

Prerequisite: none. Special fee: \$25 flat fee—subject to change.

### 10305 Billiards (1)

Prerequisite: none. Special fee: \$10 flat fee—subject to change.

### 10306 Jogging (1)

Prerequisite: none.

### 10315 Intermediate Billiards (1)

Prerequisite: PEB 10305. Special fee: \$10 flat fee—subject to change.

### 10325 Soccer (1)\*

Prerequisite: none.

### 10403 Beginning Ballroom Dance (1)

Prerequisite: none.

### 10404 Fencing—Foil Only (1)

Prerequisite: none.

### 10413 Latin Social Dance (1)

Presentation of the DVIDA bronze syllabus for Latin Dances. Introduction of Latin/Rhythm dances, which include the Meringue, Sals, Rumba, Cha-Cha and Samba. Includes proper technique, rhythm of the dance and approximately 10-15 figures for each dance.

Prerequisite: none.

### 10425 Baseball—Varsity (1)\*

Special approval required.

### 10426 Softball—Varsity (1)\*

Special approval required.

### 10505 Volleyball (1)

Prerequisite: none.

### 10515 Beginning Wallyball (1)

Basic instruction in volleyball skill and wallyball game strategies. Prerequisite: none.

### 10604 Beginning Golf (1)

Prerequisite: none. Special fee: \$6 flat fee—subject to change.

### 10612 Lifeguard Training (2)

Individuals beyond the lifesaving level are prepared to assume the responsibilities of lifeguards at pools or at nonsurf open water beaches. Prerequisites: PEB 10202.

### 10704 Intermediate Golf (1)

Prerequisite: none. Special fee: \$15 flat fee—subject to change.

### 10724 Golf—Varsity (1)\*

Special approval required.

### 10802 Fitness Swimming (1)

Application of sound training methods to achieve personal fitness through swimming. Prerequisite: PEB 10202.

### 10904 Tennis (1)

Prerequisite: none.

### 10906 Racquetball (1)

Prerequisite: none.

### 10907 Intermediate Tennis (1)

Prerequisite: PEB 10904.

### 10916 Intermediate Racquetball (1)

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.

### 11024 Track and Field—Varsity (1)\*

Special approval required.

### 11025 Cross Country—Varsity (1)

Prerequisite: Special approval required.

### 11104 Beginning Gymnastics (1)

Prerequisite: none.

### 11124 Gymnastics—Varsity (1)\*

Special approval required.

### 11125 Football—Varsity (1)\*

Special approval required.

### 11203 Horsemanship (1)

(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. Special fee: \$100 flat fee—subject to change.

### 11325 Advanced Ice Hockey (1)

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. Special fee: \$35 flat fee—subject to change.

### 11604 Beginning Karate (1)

Prerequisite: none.

### 11605 Intermediate Karate (1)

Must have taken PEB 11604 or have three months of experience in karate. Prerequisite: special approval.

### 11634 Self-Defense (1)

Prerequisite: none.

### 11664 Pilates (1)

Pilates is a form of fitness endeavors which unite the rhythmic performances and strength with the conditioning principles of the movement sciences. Prerequisite: none.

### 11825 Wrestling—Varsity (1)\*

Special approval required.

### 11904 Beginning Ice Skating (1)

Prerequisite: none. Special fee: \$35 flat fee—subject to change.

### 12004 Basic Figure Skating (1)

Prerequisite: PEB 11904. Special fee: \$35 flat fee—subject to change.

**12204 Beginning Broomball (1)**

Broomball is a recreational ice game played in an ice rink. Skills, tactics and plays are similar to those used in ice hockey. Prerequisite: none.

**12324 Weight Training (1)\***

Prerequisite: none.

**12325 Women's Weight Training (1)**

A basic course in the use of equipment in an average weight room and its application toward the development of strength and power. Prerequisite: none.

**12424 Exercise and Weight Control (1)**

Instruction in and practice of exercises based upon proper food selection for the purpose of weight control. Prerequisite: none.

**12425 Nautilus Exercises (1)**

Fundamental skills and knowledge involved in the use of the Nautilus for fitness development. Prerequisite: none.

**12604 Intermediate Fencing (1)**

Prerequisite: PEB 10404.

**13003 Dance Exercise (1)**

An aerobic program concerned with cardiovascular efficiency, flexibility and strength gain which is achieved through dance movement. Prerequisite: none.

**13006 Cross-Country Skiing (1)**

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.

**13008 Intermediate Volleyball (1)**

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.

**13010 Judo-Akido (1)**

Prerequisite: none.

**13012 Backpacking (2)**

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.

**13013 Canoeing (2)**

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. Special fee: \$20 flat fee—subject to change.

**13015 Field Hockey—Varsity (1)\***

Special approval required.

**13016 Cycling (1)**

Prerequisite: none.

**13017 Volleyball—Varsity (1)\***

Special approval required.

**13021 Wilderness Route Finding (1)**

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.

**13022 Camping (2)**

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. Student must supply own clothing and shelter. Prerequisite: special approval.

**13023 Rock Climbing (1)**

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.

**13024 Beginning Kayaking (2)**

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 yard and tread water for five minutes fully clothed. Prerequisite: special approval. Special fee: \$20 flat fee—subject to change.

**13025 Basic Sailing (1)**

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 yard and tread water for five minutes fully clothed. Prerequisite: special approval.

**13027 Winter Backpacking (2)**

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.

**13093 Variable Title Workshop in Exercise, Leisure and Sport (1-2)**

Workshop in exercise, leisure and sport activities; topics vary; S/U grading. Prerequisite: none.

*\*Course ineligible to be repeated for GPA recalculation.*

**Physical Education Professional (PEP)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Physical Education Professional (PEP)

**15010 Introduction to Physical Education, Fitness and Sport (2)**

An introduction to the history, philosophy, structure and changing nature of sport, fitness and the pedagogical aspects of physical education. Overview of the profession and career opportunities. Prerequisite: none.

**15011 Development and Analysis of Invasion Games (3)**

Development, analysis and assessment of game performance skills used in invasion games. Prerequisite: none.

**15013 Development and Analysis of Dance (2)**

Development and analysis of dance skills through experience in folk, social, modern and aerobic dance. Prerequisite: PEP 15017.

**15014 Development and Analysis of Gymnastic Skills (1)**

Development and analysis of gymnastic skills through experiences in conventional gymnastics events. Prerequisite: PEP 15017.

**15015 Development and Analysis of Net Games (2)**

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. Prerequisite: none.

**15016 Development and Analysis of Target and Field Games(3)**

Development and analysis of target games and field-run-score games.. Prerequisite: none.

**15017 Fundamental Motor Skills (1)**

Motor skill development and analysis through practice in fundamental motor movements. Prerequisite: none.

**15018 Development of Swimming and Aquatic Skills (1)**

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.

**15019 Development and Analysis of Track and Field (1)**

Introduction to basic techniques and rules of track and field events. Consideration of relative conditioning, safety and instructional procedures. Prerequisite: none.



**15020 Fundamental Movement, Gymnastics and Dance (1)**

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. Prerequisite: none.

**25001 Officiating Sport Activities (1-2)**

Individual prescriptions for certification in officiating the following sports: basketball, baseball, field hockey, football, gymnastics, etc. Prerequisite: none.

**25025 Teaching in Physical Education (3)**

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. Prerequisite: PEP 15010 to 15017. Pre/corequisite: EDPF 29525.

**25026 Overview of Outdoor Pursuits and Adventure Education (3)**

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 programs and/or curricula to children within the local community. Prerequisite: physical education professional (PEP) major. Special fee: \$75 flat fee—subject to change.

**25033 Lifespan Motor Development (3)**

Introduction to motor development across the life span. Special emphasis on description of motor development changes and factors influencing change. Prerequisite: PSYC 11762.

**25034 Early Childhood Motor Development (3)**

Motor development during the early childhood years, with emphasis on factors influencing change. Prerequisite: PSYC 11762. Corequisite: ECED 20163.

**25051 Human Anatomy (3)**

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.

**25059 Sport in Society (3)**

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. This course may be used to satisfy the diversity requirements.

**25068 Measurement and Evaluation in Fitness and Sport (3)**

Measurement and statistics applied to physical education and exercise/sport sciences; laboratory experiences in statistics, test construction and administration, and evaluation. Prerequisite: none.

**35010 Psychological Dimensions of Motor Behavior (3)**

Psychological factors in exercise, physical activity and sport, emphasizing motor control, learning and performance. Laboratory included. Prerequisites: junior standing and PEP 25068. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**35040 Coaching Football (2)**

Techniques of coaching football, including film analysis and offensive and defensive skills and systems. Prerequisite: not open to freshmen.

**35041 Coaching Soccer (2)**

Coaching soccer, including analysis of skills, strategy and administrative responsibilities. Prerequisite: not open to freshmen.

**35042 Coaching Volleyball (2)**

Coaching volleyball, including analysis of skills, offensive and defensive strategy, and administrative responsibilities. Prerequisite: not open to freshmen.

**35043 Coaching Gymnastics (2)**

Philosophy, fundamentals, skill analysis, spotting, conditioning, administrative and organizational responsibilities. Prerequisite: not open to freshmen.

**35044 Coaching Basketball (2)**

Philosophy, fundamentals, strategy, administrative responsibilities and conditioning. Prerequisite: not open to freshmen.

**35045 Coaching Wrestling (2)**

Fundamental skill development, skill analysis, diet and weight control, team selection methods and administrative responsibilities. Prerequisite: not open to freshmen.

**35047 Coaching Tennis and Golf (2)**

Coaching tennis and golf, including skill analysis and organization of tournaments and matches. Prerequisite: not open to freshmen.

**35048 Coaching Baseball and Softball (2)**

Coaching techniques in softball and baseball, including analysis of basic skills, position play, and offensive and defensive strategies. Prerequisite: not open to freshmen.

**35049 Coaching Track and Field (2)**

Coaching techniques relative to track and field events. Principles of organization for track and field meets. Prerequisite: not open to freshmen.

**35052 Educational Dance/Gymnastics (3)**

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.

**35065 History and Philosophy of Sport and Physical Activity (3)**

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. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**35079 Sports Physiology (3)**

Application of physiological principles of human performance to sports/exercise. Focus on examples for teaching and coaching. Prerequisite: PEP 25051.

**35084 Motor Skill Analysis (3)**

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.

**43093 Variable Title Workshop in Exercise, Leisure and Sport (1-3)**

Workshop in exercise, leisure and sport studies; topics vary; S/U grading. Prerequisite: none.

**43098 Research in Exercise, Leisure and Sport (1-3)**

(Repeatable to 12 credit hours) Research project completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration. Prerequisite: junior standing and special approval.

**45015 Psychology of Coaching (3)**

Psychological factors affecting athletic performance, with particular attention to practice factors, personality, motivation and problem athletes. Prerequisite: junior standing.

**45020 Contemporary Athletic Coaching (3)**

A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. Prerequisite: none.

**45021 Organization and Administration of Athletics (3)**

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.

**45037 Adapted Physical Education (3)**

An academic and practical approach to physical education for specific disorders. Field-based experience (10 hours). Prerequisites: PEP 25051 and 35054.

**45051 Elementary School Physical Education Methods (3)**

Approaches to teaching in elementary school physical education. Focusing on sequential curriculum development and on learning outcomes in three domains. Prerequisites: PEP 25033 and 25025 and 15013-15017 and special approval.

**45053 Elementary School Physical Education Content (3)**

Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Prerequisites: PEP 25033 and 25025 and 15013-15017 and special approval.

**45058 Secondary School Physical Education Methods (3)**

Approaches to teaching in secondary school physical education. Focus on sequential curriculum development and on learning outcomes in three domains. Prerequisites: PEP 25033 and 25025 and 15013-15017 and special approval.

**45059 Secondary School Physical Education Content (3)**

Introduction and development of content, management and organizational skills related to sports and activities utilized in secondary school physical education. Prerequisites: PEP 25033 and 25025 and 15013-15017 and special approval.

**45091 Senior Seminar (1)**

Investigation and study of current problems, topics and/or issues in physical education, exercise or sport. S/U grading; IP grade permissible. Prerequisite: senior standing.

**45092 Internship in Physical Education (2-8)**

(Repeatable for a total of 8 credit hours) Supervised full-time experience providing knowledge of overall operations for an agency or sports program in an approved setting. Fifty work hours per credit hour. S/U grading; IP grade permissible. Prerequisites: senior standing and special approval.

**45096 Individual Investigation in Physical Education (1-3)**

(Repeatable for a total of 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of supervising faculty member and school director required prior to registration. IP grade permissible. Prerequisite: junior standing and special approval.

**45392 Internship in Mainstreamed Physical Activity (1-12)**

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. S/U grading; IP grade permissible. Prerequisite: none.

**45490 Internship Seminar (1)**

(Repeatable for a total of 3 credit hours) Discussion of procedures and expectations for internships in exercise programming. S/U grading. Prerequisite: PEP 35075 and physical education professional (PEP) major.

**45692 Internship in Athletic Coaching (2-4)**

(Repeated registration permissible) 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. S/U grading; IP grade permissible. Sixty contact hours per credit. Prerequisite: PEP 45020 and special approval.

**46095 Special Topics in Physical Education (1-3)**

Selected topics in physical education dependent upon interest. Prerequisite: none.

**49525 Inquiry into Professional Practice in Physical Education (3)**

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.

**49526 Student Teaching in Physical Education (12)**

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. S/U grading; IP grade permissible. 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.

**Public Health (PH)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Public Health (PH)

**10001 Introduction to Public Health (3)**

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.

**10002 Introduction to Global Health (3)**

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.

**20003 Public Health Policy and Decision-Making (3)**

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.

**20004 Public Health Research (3)**

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.

**20005 Social and Behavioral Science Theories in Public Health (3)**

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.

**20006 Environmental Health Science (3)**

A survey of issues involving water quality; waste management, including hazardous waste; air quality and management; food protection; and other environmental topics. Prerequisite: none.

**20007 Prevention and Control of Diseases (3)**

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.

**20012 Sanitation and Hazardous Materials Management (3)**

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.

**30001 Essentials of Epidemiology (3)**

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.

**30002 Introductory Biostatistics (3)**

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.

**30003 Public Health Strategies (3)**

Case studies of various strategies used in addressing various public health issues are discussed within an evaluative framework. Prerequisite: none.

**40092 International Health Practicum (6)**

A supervised internship in global/international health. Prerequisite: PH 10002; and junior or senior standing.

**44000 Health Disparities (3)**

Understanding the factors involved in health disparities at the national and global level, and the impact of health disparities on public health. Prerequisite: none. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**44001 Integrative Seminar in Public Health (3)**

Consists of application of public health functions to local, regional or national problems. Students are required to submit and present their report to the class on a pre-approved topic. Prerequisite: special approval. Corequisite: PH 44092.

**44092 Internship in Public Health (6)**

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. Corequisite: PH 44001.

**Philosophy (PHIL)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Philosophy \(PHIL\)](#)

**11001 Introduction to Philosophy (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**11009 Principles of Thinking (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**21001 Introduction to Ethics (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**21002 Introduction to Formal Logic (3)**

Techniques of formal logic, traditional and contemporary. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

**21003 Ethics in Contemporary Contexts (3)**

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.

**21020 Comparative Religious Thought I (3)**

Philosophic study of the religious impulse as it manifests itself variously in beliefs, practices and institutions ranging over times and cultures. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**21021 Comparative Religious Thought II (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**30005 Contemporary Moral Issues (3)**

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.

**30015 Medicine and Morality (3)**

A philosophical exploration of at least three issues related to current medical practices, which may include ethical, religious, legal and clinical aspects. Prerequisites: none.

**30025 Environmental Philosophy (3)**

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.

**31001 Ancient Greek Philosophy (3)**

Examination of issues of Greek thought from its inception through Plato and Aristotle. Prerequisites: at least one of PHIL 11009 or 21002 or 30145; and at least one of PHIL 11001 or 21001. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**31002 Medieval Philosophy (3)**

Examination of issues in medieval thought; for instance, the existence and nature of God and the problem of universals. Prerequisites: at least one of PHIL 11009 or 21002 or 30145; and at least one of PHIL 11001, 21001. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**31003 Continental Rationalism (3)**

Selections from Rationalists; for instance, Descartes, Spinoza and Leibniz. Prerequisites: at least one of PHIL 11009 or 21002 or 30145; and at least one of PHIL 11001 or 21001. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**31004 British Empiricism (3)**

Selections from British empiricists; for instance, Locke, Berkeley and Hume. Prerequisites: at least one of PHIL 11009 or 21002 or 30145; and at least one of PHIL 11001 or 21001. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**31005 German Critical Philosophy (3)**

Selections from Kant and post-Kantians. Prerequisites: at least one of PHIL 11009 or 21002 or 30145; and at least one of PHIL 11001 or 21001. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**31006 Nineteenth-Century Philosophy (3)**

Selections from works of 19th-century philosophers. Prerequisites: at least one of PHIL 11009 or 21002 or 30145; and at least one of PHIL 11001 or 21001. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**31010 Twentieth-Century Philosophy (3)**

Selections from the most influential schools of thought within 20th-century philosophy: existentialism, pragmatism, logical positivism, analytic philosophy, phenomenology. Prerequisites: at least one of PHIL 11009 or 21002 or 30145; and at least one of PHIL 11001 or 21001. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**31020 American Philosophy (3)**

Selections from principal American philosophers from Colonial times to present. Prerequisites: at least one of PHIL 11009 or 21002 or 30145; and at least one of PHIL 11001 or 21001. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**31030 Existentialism (3)**

Development and themes of existentialism.  
Prerequisite: none.

**31035 Philosophy and Justice (3)**

Consideration of topics and issues in the general sphere of justice from different perspectives by classical and contemporary philosophers.  
Prerequisite: none. This course may be used to satisfy the diversity requirement.

**31040 Women and Philosophy (3)**

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 (PHIL) and junior standing. This course may be used to satisfy the diversity requirement.

**31045 Formal Logic (3)**

(Cross-listed with CS 31045 and MATH 31045)  
Study of first-order predicated calculus with identity and function symbols. Prerequisites: none.

**31060 Aesthetics (3)**

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.

**31065 Philosophies of Religious Experience (3)**

Examination of phenomena of religious experience, its structure, ramifications and expression in myth and ritual. Prerequisite: none.

**31068 Religious Thought in Contemporary Contexts (3)**

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.

**31070 African and African-American Philosophies (3)**

(Cross-listed with PAS 30010) 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. This course may be used to satisfy the diversity requirement.

**31072 American Indian Philosophies (3)**

Examination of philosophical issues and themes in American Indian world views, with attention given to the reflections of contemporary native scholars. Prerequisites: prior course in philosophy

(PHIL) and junior standing. This course may be used to satisfy the diversity requirement.

**31075 Philosophy and Multiculturalism (3)**

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. This course may be used to satisfy the diversity requirement.

**32091 Seminar: Philosophical Reflections (3)**

(Repeated registration permissible with departmental approval) Exploration of philosophic literature for contrasting or developing conceptions of human beings. Prerequisite: none.

**40005 Health Care Ethics (3)**

Ethical problems in health care critically assessed, and consideration of how these specific ethical problems illuminate the ethical enterprise. Prerequisites: none.

**40093 Variable Title Workshop in Philosophy (1-6)**

S/U grading. Prerequisite: special approval.

**41010 Problems in the Philosophy of Religion (3)**

Philosophical examination of issues and problems presented by various writers in philosophy of religion. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41015 Philosophical Study of Religion (3)**

A philosophical examination of pivotal issues, schools 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 31002 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41020 Social Philosophy (3)**

Philosophic examination of theories of societies as proposed by various writers. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41025 Philosophy of Law (3)**

Critical examination of the nature and function of law. Prerequisite: none.

**41030 Ethical Theories and Practices (3)**

Intensive and in-depth study of some dimensions of philosophic traditions in ethics. Prerequisite: at least one of PHIL 31001 or 31002 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41035 Philosophy of Science (3)**

Analysis of methodological problems in scientific disciplines. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41040 Theories of Knowledge (3)**

Study of various problems in philosophic theories of knowledge with some emphasis on current philosophic challenges on such theories. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41042 Topics in Metaphysics (3)**

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 31002 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41045 Metalogic (3)**

(Cross-listed with CS 41045 and MATH 41045)  
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.

**41048 Metaethics (3)**

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.

**41050 Philosophical Analysis (3)**

Study of major problems in analytic philosophy and subsequent philosophical analysis. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41055 Phenomenology (3)**

Investigation of phenomenological movement, its methods and the scope and course of its applications in philosophy and other disciplines. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41060 Pragmatism (3)**

Detailed reading from classical American pragmatists, along with some attention to later interpretations and explorations of current reappraisals and developments. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41065 Plato (3)**

Detailed examination of selected Platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41070 Aristotle (3)**

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: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41076 Continental Philosophy (3)**

Investigation of some figure, issue or theme in continental philosophy from Descartes to present. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41077 British and American Thought (3)**

Detailed investigation of a figure or issue in British or American philosophy. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41080 Philosophy and Art in the Modern Age (3)**

Exploring, with emphasis on the modern age, philosophical conceptions of art in their interplays with, especially, practicing artists' attitudes toward theory. Prerequisites: none. This course may be used to satisfy the writing intensive requirement (WIC).

**41085 Philosophy and Cultural Theory (3)**

A discussion of the philosophical bases of aspects of cultural theory such as post colonialism and the negritude movement. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**41086 Philosophy of Expression (3)**

Concentrated study of expression through philosophy of literature, of music, of body, of language or of symbols. Prerequisite: at least one of PHIL 31001 or 31003 or 31004 or 31005 or 31006 or 31010 or 31020.

**49995 Special Topics (2-3)**

(Repeatable when content varies) Prerequisite: special approval.

**49996 Individual Investigation (1-3)**

(Repeated registration permissible with departmental approval prior to registration) IP grade permissible. Prerequisite: departmental special approval prior to registration.

**49999 Senior Honors Project (2-3)**

(Repeated registration permissible with departmental approval prior to registration) Thesis or other independent study or creative project. IP grade permissible. Prerequisite: departmental special approval before registration.

**Physics (PHY)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Physics \(PHY\)](#)

*Note 1: PHY 13001 and 13002 do not require the use of calculus.*

*Note: 2 PHY 23101 and 23102, which use calculus, should be taken by majors in physics, mathematics, chemistry B.S., industrial technology science option, aerospace science option and pre-engineering.*

*Note 3: Credit is not granted for both the PHY13001/13002 and the 23101/23102 series, nor for the PHY 13011/13012 series.*

**11030 Seven Ideas That Shook the Universe (3)**

Description of major revolutionary physical concepts and their implications for understanding the physical universe. Not counted toward physics major. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements.

**11660 Physical Science (3)**

A course integrating basic concepts in chemistry, physics and astronomy. Prerequisite: none. Because this course represents a partial overlapping of the material in beginning courses in chemistry and physics, students should not take both PHY 11660 and either general chemistry or general physics. Ordinarily, credit is not allowed for such duplication. Any student affected by this principle should consult with the department chair of chemistry or physics. This course may be used to satisfy the Kent Core Requirements.

**12000 Introductory Physics Seminar (1)**

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. S/U grading. Prerequisite: none.

**12111 Physics for Health Technologies (3)\*\***

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.

**12201 Technical Physics I (3)\*\***

Introduction to principles of physics: mechanics. Two-hour lecture/recitation and two-hour laboratory weekly. Prerequisite: MATH 11010. Pre/corequisite: MATH 11022 or 19001.

**12202 Technical Physics II (4)\*\***

Introduction to principles of physics: fluids, thermodynamics, electricity and magnetism. Three-hour lecture/recitation and two-hour laboratory weekly. Prerequisite: PHY 12201.

**12411 Introduction to Computer Hardware (3)**

Laboratory-lecture course designed to introduce the computer scientist to the digital logic and memory circuits and the concepts fundamental to computer hardware. Two-hour lecture and two-hour laboratory weekly. Prerequisite: none.

**13001 General College Physics I (4)**

Principles of mechanics, heat and sound. Three-

hour lecture and one-hour recitation weekly. Corequisite: PHY 13021. Pre/corequisite: MATH 11022 or 12002 or 12021. This course may be used to satisfy the Kent Core Requirements.

**13002 General College Physics II (4)**

Principles of electricity and magnetism, optics and modern physics. Three-hour lecture and one-hour recitation weekly. Prerequisite: PHY 13001 or 23101. Corequisite: PHY 13022. This course may be used to satisfy the Kent Core Requirements.

**13011 College Physics I (2)**

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 a regular term. Corequisite: PHY 13021. Pre/corequisite: MATH 11022 or 12002 or 12012 or 12021. This course may be used to satisfy the Kent Core Requirements.

**13012 College Physics II (2)**

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 13011 or 23101. This course may be used to satisfy the Kent Core Requirements.

**13021 General College Physics Laboratory I (1)**

Introductory lab to accompany PHY 13001 or PHY 13011. Corequisite: PHY 13001 or 13011. This course may be used to satisfy the Kent Core Requirements.

**13022 General College Physics Laboratory II (1)**

Introductory lab to accompany PHY 13002 or PHY 13012. Corequisite: PHY 13002 or 13012. This course may be used to satisfy the Kent Core Requirements.

**20095 Special Topics (1-3)\***

Topic announced when scheduled. Prerequisite: none.

**21040 Physics in Entertainment and the Arts (3)**

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. This course may be used to satisfy the Kent Core Requirements.



**21041 Physics in Entertainment and the Arts Laboratory (1)**

Laboratory component of PHY 21040. Two-hour laboratory weekly. Pre/corequisite: PHY 21040. Special fee: \$20 flat fee—subject to change. This course may be used to satisfy the Kent Core Requirements.

**21430 Frontiers in Astronomy (3)**

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. This course may be used to satisfy the Kent Core Requirements.

**22564 Introduction to Materials Physics (3)**

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.

**22811 Forensic Physics (4)**

Fundamental physical concepts are related to various forensic activities including evidence analysis, ballistics, auto collision analysis and radioactive materials accidents. Three-hour lecture and two-hour laboratory weekly. Prerequisite: none.

**23101 General University Physics I (5)**

Principles of mechanics, heat and sound at calculus level. Four-hour lecture/recitation and three-hour laboratory weekly. Pre/corequisite: MATH 12002.

**23102 General University Physics II (5)**

Principles of electricity, magnetism, light and modern physics at calculus level. Four-hour lecture/recitation and three-hour laboratory weekly. Prerequisite: PHY 13001 or 23101. Pre/corequisite: MATH 12003.

**24001 Astronomy (3)**

Astronomical measurements and their instruments, the solar system of planets, the sun and stars, spectra, radiation, evolution of stars, galaxies, concepts of cosmology. Not counted toward physics major. Prerequisite: MATH 11010. Pre/corequisite: MATH 11022. This course may be used to satisfy the Kent Core Requirements.

**30020 Intermediate Physics Laboratory (2)**

(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. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**30095 Special Topics (1-3)**

Topic announced when scheduled. Prerequisite: special approval.

**32511 Electronics (4)**

"Hands-on" course to give the student a working knowledge of analog electronics and of AC and DC circuits typically used by the scientist. Prerequisites: PHY 13002 or 23102; and MATH 12002.

**32562 Aerodynamics (3)**

Multispeed aerodynamics including topics in fluid mechanics, airfoil and wing theory, stability and control, performance and aerodynamic loads. Prerequisite: PHY 13002 or 23102.

**34000 Cosmology (3)**

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.

**35101 Classical Mechanics (4)**

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. Prerequisites: PHY 23102 and MATH 32052.

**36001 Introductory Modern Physics (3)**

Special theory of relativity, Rutherford-Bohr model of atom, quantization of light, matter waves, Schroedinger equation, hydrogen atom, electron spin, multi-electron atoms. Prerequisites: MATH 12003 and PHY 23102.

**36002 Applications of Modern Physics (3)**

Survey of applications of twentieth century physics. Topics include molecular bonding, conducting and insulating solids, degenerate matter, quantum condensates, subatomic and subnuclear particle physics, cosmology. Prerequisite: PHY 36001.

**40020 Advanced Physics Laboratory (2)**

(Repeated registration permissible) Advanced experiments in classical and modern physics are selected to accompany and to supplement senior-level physics courses. Prerequisite: PHY 30020. Pre/corequisite: 6 hours of 40000-level physics courses. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**40060 Physical Literature (1-3)**

Study of current or topical literature. Prerequisite: special approval.

**40092 Internship in Physics (1-3)**

(Repeated registration permissible) Supervised capstone experience in physics at a national laboratory, a research university, in industry or at a local research site. No more than 3 credit hours may be applied toward the major electives for physics majors. S/U grading. Prerequisite: special approval.

**40093 Variable Title Workshop in Physics (1-6)**

Workshop individually designed to provide instruction and training in specific areas of physics. S/U grading. Prerequisite: special approval.

**40095 Special Topics (1-3)**

Topic announced when scheduled. Prerequisite: special approval.

**40096 Individual Investigation (1-6)**

Individual projects for physics majors. IP grade permissible. Prerequisite: 20 credit hours of physics (PHY) courses and special approval of department chairperson.

**40099 Senior Honors Thesis (1-10)**

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. IP grade permissible. Prerequisites: Honors senior standing and special approval.

**40195 Special Topics (1-3)**

Topic announced when scheduled. Prerequisite: special approval.

**42500 Physics of Laboratory Devices and Techniques (3)**

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.

**42512 General Electronic Instrumentation (4)**

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: PHY 32511.

**44600 Introduction to Biological Physics (3)**

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.

**44802 Astrophysics (3)**

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies, and description of various cosmological theories. Prerequisite: MATH 12003.

**45201 Electromagnetic Theory (4)**

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. Prerequisites: MATH 32052 and PHY 23102.

**45301 Thermal Physics (3)**

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering. Prerequisite: PHY 36001.

**45401 Mathematical Methods in Physics (4)**

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 senior standing.

**45403 Data Analysis and Computational Physics Techniques (3)**

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. Prerequisites: MATH 12003 and PHY 23102.

**45501 Electromagnetic Waves and Modern Optics (3)**

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.

**46101 Quantum and Atomic Physics (4)**

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/corequisite: MATH 32052.

**46301 Introduction to Nuclear Physics (3)**

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/corequisite: MATH 32052.

**46401 Introduction to Solid State Physics (3)**

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.

\*Course ineligible to be repeated for GPA recalculation.

\*\*Courses offered only at Regional Campuses.

**Plastics Technology (PLCT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Plastics Technology (PLCT)

**Courses offered only at Regional Campuses.**

**12000 Introduction to Plastics (4)**

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.

**12003 Reinforced Plastics (3)**

Comprehensive review of resin systems and fiber reinforcement for use in production of FRP products. Fabrication procedures. Comparative properties. Prerequisite: PLCT 12000.

**12004 Properties of Plastic Materials (3)**

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.

**12005 Radiation Polymer Technology I (3)**

This course is an introduction to the application of radiation processing technologies on plastic materials. Systems, equipment and mechanisms are discussed. Prerequisites: PLCT 12000 and 12003.

**22000 Assembly and Finishing of Plastics (3)**

Bonding, printing, electroplating, vacuum metalizing, hot stamping, painting, engraving, welding, sanding and machining. Prerequisite: PLCT 12000.

**22001 Plastics Product Design (3)**

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.

**22002 Plastics Tool Design (3)**

Design of molds and tools for plastics processing emphasizing part design, mold design, production aids for after-finishing, quality control. Prerequisite: PLCT 12000.

**22005 Plastics Manufacturing (2)**

Study of plastics processing technologies including molding and extrusion processes. Behavior of plastic materials under heat and pressure will be studied. Prerequisite: PLCT 12000.

**22006 Radiation Polymer Technology II (3)**

Comprehensive review of structure, synthesis, transformation and radiation processing of polymeric materials. Prerequisite: PLCT 12005.

**22007 Polymer Irradiation Technology (4)**

Detailed investigation in radiation processing of polymeric materials including actual processing of

materials with a 5 MeV accelerator. Prerequisites: PLCT 12003 and CHEM 10052.

**Political Science (POL)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Political Science (POL)

**10001 Introduction to Political Science (3)**

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.

**10004 Comparative Politics (3)**

This course introduces the different institutional structures of governance (e.g., parliamentary vs. 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. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**10100 American Politics (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**10300 Public Policy (3)**

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.

**10301 Diversity in American Public Policy (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**10500 World Politics (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**30001 Political Methods (3)**

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 basic descriptive and inferential statistics. Prerequisite: none.

**30002 Political Thought (3)**

This course is designed to introduce the student to basic methodological and substantive concerns in the tradition of Western political thought. Prerequisite: none.

**30003 Political Economy (3)**

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.

**30100 American Political Theory (3)**

Major political ideas and controversies associated with the development of American political thought. Prerequisite: POL 10100.

**30110 The Congress (3)**

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.

**30120 Presidency and Executive Bureaucracy (3)**

Intensive study of the American presidency focusing on personality, organization of the office, use and misuse of power, and policy making. Prerequisite: POL 10100.

**30130 Courts (3)**

Intensive study of the judicial process in the United States and the relationship between the judicial system and the larger American social system. Prerequisite: POL 10100.

**30300 Public Policy Theory (3)**

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.

**30301 Introduction to Public Administration (3)**

Introduction to the theory and practice of governmental administration, including structure, organization, direction and control of governmental departments and agencies. Prerequisite: POL 10300.

**30310 Qualitative Policy Analysis (3)**

Introduces students to qualitative data analysis

techniques used in social science research and policy analysis. Includes research design, tracking, textual analysis, cluster analysis techniques and cross-case analysis. Prerequisite: POL 10300.

**30350 Public Sector Dispute Resolution (3)**

Examines alternative dispute resolution principles applicable to public sector disputes, especially environmental and land use disputes. Prerequisite: POL 10300.

**30430 State Government (3)**

Comparative analysis of state political systems, including political cultures, political parties, pressure groups, executives, legislatures, judiciaries and selected state policies. Prerequisite: POL 10100 or 10300.

**30440 State and Local Government (3)**

Covers the fundamental aspects of governing at the municipal, county and state levels, including financing and dealings with the federal government. Prerequisite: none.

**30450 Metropolitan Governance (3)**

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 10300.

**30460 Federalism and Intergovernmental Relations (3)**

This course introduces the theoretical and legal infrastructure of federalism and intergovernmental relations. Subsequent course coverage addresses the political, fiscal and management/administration dimensions of recent developments in the intergovernmental system. Prerequisite: POL 10100 or 10300.

**30500 International Relations Theory (3)**

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.

**30501 Comparative Theory and Concepts (3)**

Introduces logic and methods of comparison in politics, institutions and policy. Students apply the comparative method through an individual project and reading, comparing political systems and policies. Prerequisite: POL 10004.

**30511 Problems of International Organization (3)**

Intensive study of major European problems handled by international organizations, including the United Nations, and nongovernmental organizations. Combines classroom and field investigations. Registration in the Geneva Semester required. Prerequisite: special

approval.

**30520 European Politics (3)**

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.

**30530 Asian Politics (3)**

This course examines the politics of China, Japan and the Koreans by looking at the relationship between state and industry in these countries. We will look at the rise of the state in each nation and the subsequent roles they have played in industrialization. Prerequisite: POL 10004. This course may be used to satisfy the diversity requirement.

**30540 African Politics (3)**

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. This course may be used to satisfy the diversity requirement.

**30550 Latin American Politics (3)**

Analysis of political culture/process in selected Latin American states, with particular emphasis on Mexico, Brazil, Argentina and Colombia. Prerequisite: POL 10004. This course may be used to satisfy the diversity requirement.

**30551 U.S.-Latin American Relations (3)**

Survey of U.S.-Latin American diplomacy, contemporary hemispheric issues and relations between Latin American states themselves. Prerequisite: POL 10004.

**30810 Politics of the Global Economy (3)**

Examines interaction between economics and politics in international relations. Topics: poverty and uneven economic development, political prerequisites for free trade, intrawestern and north-south economic conflict and distributive justice. Prerequisite: POL 10300 or 10500.

**30820 International Organization and Law (3)**

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 10500.

**30840 Nongovernmental Organizations (3)**

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 10500.

**30991 Seminar: Columbus Program in Intergovernmental Issues (6-12)**

Annual fall semester resident-study in Columbus, Ohio. Students spend three days per week working at an internship; two days per week attending briefings and completing POL 30430. Prerequisite: minimum 2.50 GPA and special approval. Corequisite: POL 30430.

**39592 Geneva Internship (3)**

Allows students to earn academic credit while performing intern's duties as part of the Semester in Geneva program. Prerequisite: none.

**40112 Politics and the Mass Media (3)**

This course examines the multiple roles played by the mass media in contemporary politics and analyzes the implications of those roles. Prerequisite: POL 10100.

**40116 Public Opinion and Political Behavior (3)**

Analysis of determinants of public opinion and political behavior. Study of how the public makes up its mind and impact of public opinion on government policy. Prerequisite: POL 10100.

**40118 Political Parties and Interest Groups (3)**

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.

**40182 Constitutional Law: Government Powers (3)**

Nature and scope of constitutional government. Study of judicial review, separation of powers, federalism, commerce and taxation. Prerequisite: POL 10100.

**40183 Constitutional Law: Civil Rights and Liberties (3)**

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. This course may be used to satisfy the diversity requirement.

**40191 Seminar in American Politics (3)**

(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. Prerequisite: political science (POL) major and POL 10004 and 10100 and 10300 and 10500 and 30001 and 30002 and 30003 and special approval. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**40320 Ethics and Public Policy (3)**

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.

**40391 Seminar in Public Policy (3)**

(Repeatable with permission) A required, writing-intensive seminar for juniors and seniors in the public policy concentration. The focus of the seminar will vary depending on instructor. Prerequisite: political science (POL) major and POL 10004 and 10100 and 10300 and 10500 and 30001 and 30002 and 30003 and special approval. This course may be used to satisfy the writing-intensive course requirement with approval of major department.

**40440 U.S. Environmental Politics and Policies (3)**

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. Prerequisite: POL 10100 or 10300.

**40450 Social Welfare Policy and the Politics of Poverty (3)**

Course surveys American social welfare policy and the politics of poverty in the United States. It deals with the shape of the welfare state, political forces shaping its development, the contours of poverty politics and the dilemmas of political participation and activism for/by the poor. Prerequisite: POL 10100 or 10300.

**40470 Women, Politics and Policy (3)**

Examines origins, development, 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 10300. This course may be used to satisfy the diversity requirement.

**40530 Politics of War (3)**

Examines central questions concerning the justification, explanation, characteristic features and consequences of war. Specific cases will be examined, such as WWI, the Chinese Revolution, Vietnam's Civil War and potential nuclear war. Prerequisite: POL 10500.

**40540 Politics of Development (3)**

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 10005. This course may be used to satisfy the diversity requirement.

**40560 Human Rights and Social Justice (3)**

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 10005. This course may be used to satisfy the diversity requirement.

**40591 Seminar in International Relations-Comparative Politics (3)**

(Repeatable with permission) A required, writing-intensive seminar for juniors or seniors in the IR-comparative politics concentration. The focus of the seminar will vary depending on instructor. Prerequisites: political science (POL) major and POL 10004 and 10100 and 10300 and 10500 and 30001 and 30002 and 30003 and special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**40810 Government-Business Relations (3)**

This course focuses on the relationship between the public and private sectors, including a theoretical as well as historical analysis of the evolving relationship between the two. Domestic, comparative and international aspects are featured. Prerequisite: POL 10004 or 10300 or 10500.

**40830 U.S. Foreign Policy (3)**

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 10500.

**40840 Comparative Foreign Policy (3)**

Comparative analysis of foreign policy patterns and determinants on the basis of the examination of foreign policy of selected countries. Prerequisite: POL 10004 or 10300 or 10500.

**40920 Politics of Social Movements (3)**

Examines the role of social movements in industrial democracies. Focuses on the labor movement and the push for industrial and economic democracy for comparative study of social and political change in France, Germany, Scandinavia and the United States. Includes transnational dimension in European Union and the challenges posed by economic globalization. Prerequisite: POL 10100 or 10004 or 10300 or 10500.

**40991 Washington Program in National Issues (15)**

Annual spring semester resident-study in Washington, D.C. Credit hours divided among three units: preparatory colloquium, on-site briefings seminar and internship. Prerequisites: junior standing and 2.75 GPA and special approval of the director.

**40992 Public Service (1-3)**

Allows academic credit for approved participation in variety of political processes, or as an intern with governmental or private agencies dealing with public affairs. Prerequisites: political science (POL) major and special approval.

**40993 Variable Title Workshop in Political Science (1-6)**

S/U grading. Prerequisite: none.

**40995 Selected Topics in Political Science (1-3)**

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.

**40996 Individual Investigation (1-3)**

For students desiring research into subjects beyond level of completed coursework or on subjects for which no regular course is offered. Prerequisites: political science (POL) major and special approval.

**Portuguese (PORT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Portuguese (PORT)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

**17201 Elementary Portuguese I (4)**

An introduction to the Portuguese language in the context of Luso-Brazilian cultures. Prerequisite: special approval.

**17202 Elementary Portuguese II (4)**

A continuation of the introduction to the Portuguese language in the context of Luso-Brazilian cultures. Prerequisite: PORT 17201.

**27209 Field Study (1-6)**

(Repeatable for a total of 6 credit hours) For residence and/or field research in a Portuguese-speaking community. Prior to registration for this course, student must obtain departmental approval. Prerequisite: special approval.

**27210 Intensive Portuguese (5)**

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.

**37211 Composition and Conversation (3)**

Study and practice of oral and written Portuguese. Prerequisite: PORT 27210.

**37330 Early Brazilian Literature (3)**

Outline of developments in Brazilian literature and reading of representative works from the colonial period to 1922. Prerequisite: PORT 37211. This course may be used to satisfy the writing-intensive course graduation requirement with approval of major department.

**37331 Recent Brazilian Literature (3)**

Outline of developments in Brazilian literature and reading of representative works from 1922 to the present. Prerequisite: PORT 37211. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**37421 Luso-Brazilian Civilization (3)**

Lectures, readings, oral and written reports on outstanding features of the Portuguese-speaking world with emphasis on Brazil. Prerequisite: PORT 37211.

**47093 Variable Title Workshop in Portuguese (1-6)**

(Repeated registration permissible) Workshops individually designed to provide instruction and training in specific areas of Portuguese studies. S/U grading. Prerequisite: departmental special approval.

**47095 Selected Topics (3)**

(Repeated registration permissible) 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.

**47096 Individual Investigation (1-3)**

(Repeatable for a total of 6 credit hours) 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. IP grade permissible. Prerequisite: PORT 27210 and junior standing and special approval.

**Psychology (PSYC)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Psychology (PSYC)

**11762 General Psychology (3)**

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, the experience of emotion and psychological disorders. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**20651 Child Psychology (3)**

A review of the data, concepts and theories of psychology that contribute to our understanding of child development from conception to age 14. Prerequisite: PSYC 11762. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**21211 Psychology of Adjustment (3)**

A review of theories, concepts and data that contribute to our 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. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**21621 Quantitative Methods in Psychology I (3)**

Application of quantitative, statistical methods in psychological research. Descriptive and inferential methods (includes ANOVA, t-test and correlation). Prerequisite: PSYC 11762.

**22221 Multicultural Psychology (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

**30445 Cognitive Psychology (3)**

Covers the mental processes that underlie 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.

**30651 Adolescent Psychology (3)**

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.

**30652 Social and Personality Development (3)**

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 one of PSYC 20651 or HDFS 24012.

**30655 Cognitive Development (3)**

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 one of PSYC 20651 or HDFS 24012.

**30656 Psychology of Aging (3)**

(Cross-listed with GERO 30656) 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.



**30821 Psychology of Motivation (3)**

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.

**31043 Basic Learning Processes (3)**

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.

**31141 Perception (3)**

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.

**31498 Undergraduate Research (1-6)**

(Repeatable for a total of 16 credit hours but see arts and sciences and psychology major/minor requirements for applicability limits) Individual research open to qualified students. S/U grading, IP grade permissible. Prerequisites: PSYC 11762 and special approval.

**31574 Research Methods in Psychology (3)**

The rationale, logic and procedures of scientific research in psychology, with an emphasis on measurement, causal inference and research design. Prerequisites: PSYC 11762 and 21621.

**31684 Quantitative Methods in Psychology II (3)**

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.

**31773 Industrial Psychology (3)**

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.

**40111 Abnormal Psychology (3)**

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.

**40231 Psychological Assessment (3)**

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. Prerequisites: PSYC 11762 and 21621.

**40383 Psychological Interventions (3)**

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.

**40461 Psychology of Language (3)**

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. Prerequisites: PSYC 11762 and 30445.

**40625 Development of Gender Role and Identity (3)**

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. This course may be used to satisfy the diversity requirement.

**40974 History of Psychology (3)**

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. Prerequisites: PSYC 11762 and special approval.

**41282 Personality (3)**

A review of the data, concepts and theories of psychology that contribute to our understanding of personality. Prerequisite: PSYC 11762.

**41363 Biopsychology (3)**

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.

**41492 Internship in Psychology (1-6)**

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. Must have 3.0 GPA in all psychology courses. Open to psychology majors and minors only.

Prerequisites: 3.0 cumulative GPA; 9 credit hours in psychology; psychology (PSYC) majors or minors; junior standing.

**41495 Special Topics in Psychology (3)**

(Repeated registration permissible) 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. Prerequisites: junior standing and special approval.

**41498 Individual Investigation (1-6)**

(Repeatable for a total of 16 credit hours but see arts and sciences and psychology major/minor requirements for applicability limits) Involves participation in empirical research, review of psychological literature and preparation of a paper or annotated bibliography. IP grade permissible. Prerequisite: PSYC 11762 and special approval.

**41532 Social Psychology (3)**

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.

**41573 Laboratory Experience in Psychological Research: Social/Clinical (3)**

Intensive experience in the conduct, analysis and reporting of empirical research in social or clinical psychology. Specific content will vary with the instructor. Repeatable once with instructor and departmental special approval if topic is different. Prerequisites: 3.20 GPA and PSYC 11762 and 21621 and 31574. This course may be used to satisfy the writing-intensive requirement.

**41574 Laboratory Experience in Psychological Research: Cognitive/Learning (3)**

Intensive experience in the conduct, analysis and reporting of empirical research in cognitive psychology or human/animal learning. Specific content will vary with the instructor. Repeatable once with instructor and departmental special approval if topic is different. Prerequisites: 3.20 GPA and PSYC 11762 and 21621 and 31574 and special approval. This course may be used to satisfy the writing-intensive requirement.

**41581 Health Psychology (3)**

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.

**41990 Writing in Psychology (1)**

Writing-intensive course taken in conjunction with a 3-credit-hour upper-division psychology course (except PSYC 31498, 41498, 41573, 41574 or 41993). Prerequisite: departmental special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41991 Seminar in Psychology (3)**

Seminar on various content areas of psychology. Specific topics announced. Prerequisite: PSYC 11762.

**41993 Variable Title Workshop in Psychology (1-6)**

Variable topic offered as need arises. Specific topics are announced in the Schedule of Classes. S/U grading. Prerequisites: PSYC 11762 and special approval.

**Physical Therapist Assistant Technology (PTST)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Physical Therapist Assistant Technology (PTST)

**Courses offered only at Regional Campuses.****10000 Introduction for the Physical Therapist Assistant (2)**

Orientation to the field of physical therapy history. Functions and responsibilities. Legal and ethical accountability. Patient rights. Safety. Health care delivery system. Prerequisite: none.

**10001 Principles of Patient Care in Physical Therapy (4)**

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. Special fee: \$25 flat fee—subject to change.

**10002 Analysis of Movement (4)**

Function of the human body with emphasis on the musculoskeletal system. Gross body measurements. Prerequisite: BSCI 11001. Corequisites: PTST 10003 and 10004 and 10005.

**10003 Clinical Conditions I (2)**

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 10004 and 10005.

**10004 Physical Therapy Procedures I (4)**

Theory and techniques of treatment procedures with emphasis on modalities. Maintenance of equipment and supplies. Prerequisite: PTST 10001. Corequisites: PTST 10002 and 10003 and 10005. Special fee: \$20 flat fee—subject to

change.

**10005 Directed Practice in Physical Therapy I (2)**

Introduction to the practice of physical therapy procedures in the clinical setting under the supervision of a licensed physical therapist. IP grade permissible. Prerequisite: PTST 10001. Corequisites: PTST 10002 and 10003 and 10004.

**10009 Medical Terminology (1)**

Terminology utilized by the medical profession. Emphasis is on definition, spelling, pronunciation and correct usage of terms. Prerequisite: none.

**10010 Transitions in Physical Therapy (8)**

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, 10004, 200003, 20004 and PHY 12111. Prerequisite: physical therapist assistant technology (PTST) major and special approval.

**20001 Therapeutic Communications in Physical Therapy (1)**

Focus on understanding human behavior, emotional needs of individuals, therapeutic use of self, and development of communication skills and interpersonal relationships. Prerequisite: none.

**20003 Clinical Conditions II (2)**

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 20005.

**20004 Physical Therapy Procedures II (4)**

Continuation of theory and techniques of treatment procedures. Emphasis on correlating equipment with treatment procedures and correlating application with dysfunction. Prerequisite: PTST 10004. Corequisites: PTST 20003 and 20005. Special fee: \$25 flat fee—subject to change.

**20005 Directed Practice in Physical Therapy II (5)**

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 20004.

**20006 Physical Rehabilitation Procedures (4)**

Principles and techniques of therapeutic exercise and rehabilitation in physical therapy. Prerequisite: PTST 20005. Special fee: \$25 flat

fee—subject to change.

**20007 Directed Practice in Physical Therapy III (6)**

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.

**20008 Clinical Conditions III (2)**

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. Prerequisites: PTST 10003 and 20003.

**20010 Directed Practice in Physical Therapy Transitions (7)**

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) will receive credit for PTST 10005, 20005 and 20007. Prerequisite: PTST 10010 and special approval. Corequisites: PTST 20006 and 20008.

**21095 Special Topics in Physical Therapist Assistant Technology (1-4)**

Special topics in physical therapist assistant technology; topics announced when schedule. Prerequisite: physical therapist assistant technology (PTST) major.

**21096 Individual Investigation in Physical Therapist Assistant Technology (1-3)**

Individual study in physical therapist assistant technology and related fields; open to PTST majors. Prerequisite: physical therapist assistant technology (PTST) major.

**Radiologic Technology (RADT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Radiologic Technology (RADT)

**Courses offered only at Regional Campuses.****14000 Introduction to Radiologic Technology (3)**

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: radiologic technology (RADT) major.

**14002 Introduction to Patient Care (3)**

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 and HED 14020.

**14004 Radiologic Physics (4)**

Introduction to general physics, units and measurement, atomic structure, electricity, magnetism, electromagnetism, x-ray circuitry equipment and x-ray production. Prerequisite: RADT 14019 and radiologic technology (RADT) major. Corequisite: RADT 24024.

**14010 Clinical Education I (1)**

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. Prerequisite: RADT 14020 and radiologic technology (RADT) major. Corequisite: RADT 14021.

**14011 Clinical Education II (1)**

Continuation of Clinical Education I, with emphasis on clinical practice of content of previous courses plus digestive and urinary procedures, as well as head positioning. Students assigned to clinical education setting 24 hours per week. Prerequisite: RADT 14010 and radiologic technology (RADT) major. Corequisite: RADT 24020.

**14012 Clinical Education III (1)**

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. Prerequisite: RADT 14011 and radiologic technology (RADT) major.

**14013 Clinical Education IV (1)**

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 and radiologic technology (RADT) major.

**14019 Radiographic Exposure and Imaging I (3)**

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. Prerequisite: RADT 14000 and radiologic technology (RADT) major. Corequisite: RADT 14010.

**14020 Radiographic Procedures I (2)**

Introduction to radiographic procedures and positioning of the chest, abdomen and hands. Lecture, lab and 16 hours of clinical education per week for 5 weeks. Prerequisite: RADT 14000 and radiologic technology (RADT) major.

**14021 Radiographic Procedures II (4)**

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 and radiologic technology (RADT) major. Corequisite: RADT 14010.

**14022 Radiographic Exposure and Imaging II (3)**

Aspects of radiographic quality, fluoroscopic equipment, X-ray timers and tomography. Experiments involving the factors that influence radiographic quality. Two hours lecture, two hours laboratory weekly. Prerequisite: RADT 14019.

**14096 Individual Investigation in Directed Readings in RADT (3)\***

Student selects prescribed number of medical journals, completes questions, paper and presentation. Prerequisite: radiologic technology (RADT) major.

**21095 Special Topics in Radiologic Technology (2-4)\***

(Repeated registration permissible) Student participation course on topics pertinent to radiologic technology. Topics are chosen by the instructor. Students may enroll in course more than once. Prerequisite: special approval of instructor.

**24000 Medical Terminology (2)**

Method of construction and recognition of medical terms from Greek and Latin prefixes, suffixes, word roots and combining forms. Radiologic terminology is emphasized. Prerequisite: radiologic technology (RADT) major.

**24001 Radiologic Pathology (3)**

Introduction to disease and injury states and their application to radiologic imaging. Each anatomical system and radiologic imaging modality is discussed. Prerequisites: BSCI 11010 and 11020; and HED 14020; and RADT 24024; and radiologic technology (RADT) major. Corequisite: RADT 24011.

**24002 Radiation Protection (3)**

Overview of the principles of the interaction of radiation with living systems. Factors affecting biological responses 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) major.

**24010 Clinical Education V (1)**

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. Prerequisite: RADT 14013 and radiologic technology (RADT) major.

**24011 Clinical Education VI (1)**

Continuation of Clinical Education V, with emphasis on clinical practice of content and 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. Prerequisites: RADT 24010 and radiologic technology (RADT) major.

**24020 Radiographic Procedures III (4)**

Radiographic anatomy and positioning of the gastrointestinal, biliary and urinary systems and head positioning. Prerequisite: RADT 14021 and radiologic technology (RADT) major. Corequisite: RADT 14011.

**24024 Advanced Imaging (4)**

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 and radiologic technology (RADT) major. Corequisite: RADT 24010.

**24048 Radiographic Techniques (3)**

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; and RADT 14002 and 14004 and 14022 and 24002 and 24020; and special approval. Registration restricted to the Ashtabula and Salem campuses.

**24058 Diversified Employment (3)**

Course features multiple topics in medical imaging to prepare graduates for employment in healthcare. Prerequisite: radiologic technology (RADT) major.

**24096 Individual Investigation in Radiologic Technology (1)\***

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.

**24196 Individual Investigation in Advanced Readings in RADT (3)\***

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.

*\*Course ineligible to be repeated for GPA recalculation.*

**Rehabilitation Counseling (RHAB)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Rehabilitation Counseling (RHAB)

**47712 Introduction to Rehabilitation (3)**

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.

**Radiologic and Imaging Sciences (RIS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Radiologic and Imaging Sciences (RIS)

**Courses offered only at Regional Campuses.**

**34003 Radiation Therapy Principles/Practice I (3)**

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. IP grade permissible. Prerequisite: radiologic and imaging sciences (RIS) major.

**34004 Radiation Therapy Patient Management (3)**

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. IP grade permissible. Prerequisite: radiologic and imaging sciences (RIS) major.

**34008 Radiation Therapy Physics I (3)**

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. IP grade permissible. Prerequisite: radiologic and imaging sciences (RIS) major.

**34030 Radiation Therapy Clinical Education I (1)**

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. IP grade permissible. Prerequisite: radiologic and imaging sciences (RIS) major.

**34040 Patient Management in Diagnostic Medical Sonography (3)**

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: radiologic and imaging sciences (RIS) major.

**34042 Abdominal Sonography I (3)**

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.

**34044 Ultrasound Physics and Instrumentation (3)**

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.

**34045 Ultrasound Clinical Education I (2)**

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. IP grade permissible. Prerequisite: radiologic and imaging sciences (RIS) major.

**34052 Abdominal Sonography II (3)**

Continuation of RIS 34042; anatomy, physiology and pathology of the abdomen; instrumentation and sonographic scanning techniques; normal and abnormal sonographic appearance of abdominal structures are presented. Prerequisites: RIS 34042 and radiologic and imaging sciences (RIS) major.

**34055 Ultrasound Clinical Education II (3)**

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. Prerequisite: RIS 34045 and radiologic and imaging sciences (RIS) major.

**34062 Obstetrics and Gynecology Sonography I (3)**

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. Prerequisites: RIS 34045 and radiologic and imaging sciences (RIS) major.

**34065 Ultrasound Clinical Education III (2)**

Provides clinical education and experience at a 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 identify image quality problems. IP grade permissible. Prerequisite: RIS 34055 and radiologic and imaging sciences (RIS) major. Corequisite: RIS 44072.

**34082 Small Parts Sonography (1)**

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.

**34083 Sectional Anatomy in Medical Imaging (3)**

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. Prerequisites: radiologic and imaging sciences (RIS) major; and BSCI 11000 or 11020 or 20020.

**34084 Computed Tomography and Magnetic Resonance Imaging Sectional Anatomy I (2)**

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.

**34086 Computed Tomography and Magnetic Resonance Imaging Sectional Anatomy II (2)**

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. Prerequisite: RIS 34084 and radiologic and imaging science (RIS) major.

**41095 Special Topics in Radiologic and Imaging Sciences (1-3)**

Courses will consist of various topics in medical imaging designed to enhance learning outcomes. Prerequisites: radiologic and imaging sciences (RIS) major.

**44000 Introduction to Radiologic and Imaging Sciences (2)**

Introduction to radiology patient care techniques and clinical procedures for freshman entry students admitted to the radiologic and imaging sciences major in nuclear medicine and radiation therapy. Prerequisite: radiologic and imaging (RIS) major.

**44001 Patient Management in Nuclear Medicine (3)**

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. Corequisite: RIS 44002 and 44005 and 44006 and 44011 and radiologic and imaging sciences (RIS) major.

**44002 Nuclear Medicine Procedures I (3)**

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 sciences (RIS) major. Corequisites: RIS 44001 and 44005 and 44006 and 44011.

**44005 Nuclear Medicine Clinical Education I (3)**

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. IP grade permissible. Prerequisite: radiologic and imaging sciences (RIS) major. Corequisites: RIS 44001 and 44002 and 44006 and 44011.

**44006 Nuclear Medicine Physics and Instrumentation I (4)**

Explores the concepts of the physical principles of nuclear medicine physics including interactions with matter. Information regarding radiation detectors and laboratory equipment and their applications, functions and limitations is included. Prerequisite: radiologic and imaging sciences (RIS) major. Corequisite: RIS 44001 and 44002 and 44005 and 44011.

**44010 Nuclear Medicine Clinical Education II (3)**

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) is included. Competency testing continues; proficiency testing begins. IP grade permissible. Prerequisite: RIS 44005.

**44011 Nuclear Medicine Radiopharmacy (4)**

Includes 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.

**44012 Nuclear Medicine Procedures II (3)**

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.

**44013 Radiation Therapy Principles/Practice II (3)**

Examines the multidisciplinary treatment approaches. Consists of advanced topics in therapy, chemotherapy, immunotherapy and surgical interventions for combined modalities, for benign conditions and for managing side effects and emergencies. IP grade permissible. Prerequisite: RIS 34003.

**44014 Nuclear Medicine Physics and Instrumentation II (3)**

Explores the use and quality control of all nuclear medicine instrumentation. The student will understand the function of radiation detection devices to include counting and imaging equipment, SPECT and PET 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. Corequisites: RIS 44010 and 440123 and 44015 and 44017.

**44015 Nuclear Medicine Clinical Education III (2)**

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. IP grade permissible. Prerequisites: RIS 44010 and radiologic imaging sciences (RIS) major. Corequisites: RIS 44016.

**44016 Nuclear Medicine Procedures III (3)**

Nuclear medicine hematology and immunology, radionuclide therapy, pediatric imaging, and

emerging technologies, including PET oncology imaging. Includes a review of all nuclear medicine procedures covered in RIS 44002 and RIS 44012. Prerequisites: RIS 44012 and radiologic imaging sciences (RIS) major. Corequisite: RIS 44015.

**44017 Nuclear Medicine Radiation Safety (3)**

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 10CFR Parts 19, 20 and 35. Prerequisite: RIS 44006; and radiologic and imaging sciences (RIS) majors; and special approval. Corequisite: RIS 44014.

**44018 Radiation Therapy Physics II (3)**

Continuation of the principles of radiation therapy physics and the study of photon beam dosimetry, electron beam dosimetry and treatment planning. IP grade permissible. Prerequisite: RIS 34008.

**44020 Nuclear Medicine Clinical Education IV (2)**

Instructed at both the clinical education sites and Salem Campus. Emphasizes advanced procedures, SPECT and PET scanning, advanced and emerging technologies, telradiology and PACS, and critical thinking skills for the clinical site. Competency testing is completed. Graduate competency evaluations are performed. There is a comprehensive review of all nuclear medicine procedures, physics and instrumentation, radiopharmacy and radiation health safety. IP grade permissible. Prerequisite: RIS 44015. Corequisite: RIS 44016.

**44021 Patient Management in Computed Tomography (CT) (3)**

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.

**44022 Computed Tomography (CT) Imaging Procedures (3)**

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.



#### **44024 Physical Principles of Computed Tomography (CT) (3)**

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 discussed. Prerequisites: radiologic and imaging sciences (RIS) major and RADT 14004 and COMT 11000.

#### **44025 Computed Tomography (CT) Clinical Education I (3)**

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. Competency exams required. IP grade permissible. Prerequisite: radiologic and imaging sciences (RIS) major.

#### **44027 Computed Tomography (CT) Clinical Education II (3)**

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. IP grade permissible. Prerequisite: RIS 44025.

#### **44028 Radiation Therapy Radiobiology (3)**

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. IP grade permissible. Prerequisite: RIS 44018.

#### **44029 Radiation Therapy Pathology I (3)**

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) major. Corequisites: RIS 44013 and 44040.

#### **44031 Patient Management in MRI (3)**

Provides information on the role of the MRI technologist in maintaining patient safety and comfort as well as personal and coworker safety. MR contrast agents and venipuncture will be studied. Includes problem solving with diverse patient types. Prerequisite: radiologic and imaging sciences (RIS) major.

#### **44035 MRI Clinical Education I (3)**

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. IP grade

permissible. Prerequisite: radiologic and imaging sciences (RIS) major.

#### **44036 MRI Clinical Education II (3)**

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. IP grade permissible. Prerequisite: RIS 44035.

#### **44037 MRI Clinical Education III (3)**

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. IP grade permissible. Prerequisite: RIS 44036.

#### **44038 Radiation Therapy Physics III (3)**

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. IP grade permissible. Prerequisite: RIS 44018.

#### **44040 Radiation Therapy Clinical Education II (1)**

Continuation of RIS 34030 with emphasis on clinical practice of treatment techniques and planning. Students are assigned to clinical education site for approximately 24 hours per week. IP grade permissible. Prerequisite: RIS 34030.

#### **44041 Radiation Therapy Quality Management (2)**

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. IP grade permissible. Prerequisite: RIS 44018.

#### **44042 Radiation Therapy Pathology II (3)**

Continuation of RTH 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. Corequisites: RIS 44028 and 44050.

#### **44043 Radiation Therapy Principles/Practice III (3)**

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 for the American Registry of Radiologic Technologists (ARRT). IP grade permissible. Prerequisite: RIS

44013 and radiologic and imaging sciences (RIS) major.

#### **44044 Magnetic Resonance Imaging Procedures I (2)**

Provides the imaging techniques related to the body, special clinical application, 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. Corequisites: RIS 44036 and radiologic and imaging science (RIS) major.

#### **44045 Magnetic Resonance Imaging Procedures II (2)**

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. Corequisites: RIS 44036.

#### **44050 Radiation Therapy Clinical Education III (1)**

Continuation of RIS 44040 with added emphasis on critical thinking, problem solving and clinical competency. Students are assigned to clinical education site for approximately 24 hours per week. IP grade permissible. Prerequisite: RIS 44040.

#### **44051 Magnetic Resonance Equipment and Image Acquisition I (2)**

Develops an 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.

#### **44052 Magnetic Resonance Equipment and Image Acquisition II (2)**

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 students to maximize MR image quality. Prerequisites: RIS 44051 and radiologic and imaging science (RIS) major. Corequisite: RIS 44036.

#### **44060 Radiation Therapy Clinical Education IV (1)**

Continuation of RIS 44050 with added emphasis on critical thinking, problem solving and clinical competency. Students are assigned to clinical education site for approximately 24 hours per week. IP grade permissible. Prerequisite: RIS 44050.

**44070 Radiation Therapy Clinical Education V (1)**

Continuation of RIS 44060 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. IP grade permissible. Prerequisite: RIS 44060.

**44072 Obstetrics and Gynecology Sonography II (3)**

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.

**44074 Vascular Sonography (2)**

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.

**44075 Ultrasound Clinical Education IV (3)**

Provides clinical education and experiences 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. IP grade permissible. Prerequisite: RIS 34065 and radiologic and imaging science (RIS) major.

**44078 Sonographic Techniques (3)**

Course integrates diagnostic medical sonography concepts in preparation for certification exams. Prerequisite: radiologic and imaging sciences (RIS) major.

**44083 Pathophysiology for Medical Imaging (3)**

Provides students with basic information on the causes of diseases 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.

**44084 Ultrasound Image Evaluation (1)**

Presentation of sonographic findings in specific disease processes, with evaluation of image quality and emphasis on diagnostic features of pathologic entities. Prerequisites: 34065 and radiologic and imaging sciences (RIS) major.

**44085 Ultrasound Clinical Education V (3)**

Provides clinical education and experience at clinical sites to allow students the opportunity to demonstrate proficiency in obtaining high quality sonographic images, to alter protocols based on patients and to evaluate image quality. IP grade permissible. Prerequisite: RIS 44075 and radiologic and imaging sciences (RIS) major.

**44096 Individual Investigation in Medical Imaging Directed Readings (3)**

Student selects prescribed number of medical imaging journal articles, completes questions, paper and presentation. Prerequisite: radiologic and imaging sciences (RIS) major.

**44098 Research in Medical Imaging (3)**

Fundamental concepts and procedures for systematic collection, analysis, critique and application of qualitative and quantitative data in medical imaging. Prerequisites: radiologic and imaging sciences (RIS) major and senior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**Recreation, Park and Tourism Management (RPTM)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Recreation, Park and Tourism Management (RPTM)

**16000 Foundations of Recreation and Leisure (3)**

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.

**26000 Computer Applications in Recreation and Sport (3)**

This course 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.

**26001 Introduction to Community Inclusion of Individuals with Disabilities (3)**

Interdisciplinary exploration of conceptual, theoretical, philosophical and legal aspects related to inclusion of individuals with disabilities in community life. Prerequisite: none.

**26010 Community Development in Recreation (3)**

Explores the contemporary and historical roles, organization and services of public and nonprofit 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.

**26030 Recreation Group Leadership (3)**

Group leadership concepts, methods and techniques. Practical experience in planning and conducting recreational activities for a variety of populations. Prerequisite: RPTM 16000. Special fee: \$12 flat fee—subject to change.

**26060 Introduction to Global Tourism (3)**

(Cross-listed with GEOG 22040) 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.

**26071 Maintenance and Operation of Areas and Facilities (3)**

A systems approach for the effective maintenance and operation of areas and facilities. Prerequisites: RPTM 16000.

**26080 Introduction to Therapeutic Recreation (3)**

Introduction to the profession of therapeutic recreation. Includes history, philosophy, settings and populations served and an overview of therapeutic recreation process. Prerequisite: RPTM 16000.

**26081 Principles of Outdoor Recreation (3)**

Introduction to outdoor recreation, including the history, economics, resources, management, education and environmental aspects. Prerequisite: RPTM 16000.

**36010 Recreation, Leisure and Aging (3)**

Knowledge and understanding of leisure and aging. Planning and implementing recreational programs and activities for enriching the lives of older persons. Prerequisite: RPTM 26030.

**36040 Inclusion of People with Disabilities in Leisure Services (3)**

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. This course may be used to satisfy the diversity requirement.

**36060 Commercial Recreation and Tourism (3)**

Principles of commercial recreation and tourism services, including entrepreneurship, economic concepts of the for-profit recreation industries and management skills. Prerequisite: RPTM 26060.

**36075 Program Design and Evaluation (3)**

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.

**36080 Principles of Therapeutic Recreation (3)**

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 36040.

**36081 Adventure Education (3)**

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 26081. Special fee: \$10 flat fee—subject to change.

**36082 Interpretation of Natural and Cultural Resources (3)**

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. Provides students with the philosophies, concepts and practical techniques necessary to plan and present effective interpretation of natural and cultural resources. Prerequisite: RPTM 26081.

**36083 Environmental Education and Conservation (3)**

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.

**36085 Leisure and Culture (3)**

Leisure behaviors and beliefs of people from diverse cultures, factors perpetuating inequality in the United States and strategies for leisure programming in a pluralistic society. Prerequisite: none. This course may be used to satisfy the diversity requirement.

**36092 Practicum in Therapeutic Recreation (1)**

(Repeatable for total 3 credit hours) A 60-hour field experience in a therapeutic recreation setting. Must be approved by instructor prior to registration. S/U grading. IP grade permissible. Prerequisites: RPTM 16000 and recreation, park and tourism management (RPTM) major and special approval.

**36192 Practicum in Leisure Services Management (1)**

(Repeatable for total 3 credit hours) A 60-hour field experience in a leisure services setting. Must be approved by the instructor prior to registration. S/U grading. IP grade permissible. Prerequisites: RPTM 16000 and recreation, park and tourism management (RPTM) major and special

approval.

**46000 Tourism Development and Recreational Travel (3)**

(Cross-listed with GEOG 42040) Investigation of travel and tourism development using an interdisciplinary social science approach. Prerequisite: RPTM 36060.

**46001 Principles and Methods of Community Inclusion (3)**

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: RPTM 26001.

**46030 Dynamics of Leisure Behavior (3)**

Analysis of leisure behavior through an examination of social-psychological theories and research. Prerequisites: RPTM 36040 and 36075 and PEP 25068 or PSYC 21621. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**46040 Therapeutic Recreation Program Techniques (3)**

(Cross-listed with ELS 56040) 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.

**46041 Advanced Therapeutic Recreation Program Techniques (3)**

Advanced intervention/facilitation techniques employed in therapeutic recreation practice. Professional issues related to therapeutic recreation practice. Prerequisite: RPTM 46040.

**46060 Administration of Leisure Services (3)**

Administrative practices of private and public leisure service agencies. Organization, philosophy, personnel and fiscal management, public relations and legal concerns are examined. Prerequisites: RPTM 36040 and 36075 and 36192.

**46070 Park Planning (3)**

(Cross-listed with ELS 56070) Understanding the relationship between recreation resources (e.g., land and facilities) and the people who use them. This includes the planning, design and functioning of public and commercial recreation places. Prerequisites: RPTM 26081 and 36040.

**46080 Legal Issues in Sport and Recreation (3)**

(Cross-listed with ELS 56080) Designed to alert potential recreation and sport professionals to the litigious environment prevalent in the United States, increase awareness of their legal

responsibility and risk management. Prerequisite: senior standing.

**46091 Seminar for Internship Preparation (1)**

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. S/U grading. IP grade permissible. Prerequisites: junior standing and recreation, park and tourism management (RPTM) major and RPTM 36092 or 36192; and special approval.

**46092 Internship in Recreation (6-12)**

Supervised full-time experience providing knowledge of overall agency operation in approved leisure setting. Fifty contact hours per credit hour. S/U grading; IP grade permissible. Prerequisites: senior standing and RPTM 46091 and special approval.

**46095 Selected Topics in Recreation (1-3)**

(Repeatable for total 6 credit hours) Selected topics dependent upon interest. Prerequisite: none.

**46096 Individual Investigation in Recreation (1-3)**

(Repeatable for total 6 credit hours) Independent study completed under the supervision of a faculty member. Written approval of the supervising faculty member and school director required prior to registration. IP grade permissible. Prerequisites: junior standing and special approval.

**Respiratory Therapy Technology (RTT)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Respiratory Therapy Technology (RTT)  
**Courses offered only at Regional Campuses.**

**11000 Introduction to Respiratory Therapy (2)**

Provides a broad foundation in the field of respiratory therapy. Topics include: the history, career options, licensure and credentialing for therapists. In addition, students are instructed on professional behavior, legal and ethical implications of practice, documentation, communication, infection control, HIPAA standards, OSHA standards and regulations for medical gas storage. Prerequisite: respiratory therapy technology (RTT) major.

**11001 Pharmacology (2)**

Basic principles in respiratory care pharmacology; covers the pharmacokinetic actions of drugs. Principles of drug action include: basics of drug administration, standard drug calculations, effect on the body systems. Drugs frequently used by respiratory therapists, those used to treat critical care, and cardiovascular patients are covered. Prerequisites: PTST 10009 and RTT 11000; and respiratory therapy technology (RTT) major. Corequisite: RTT 11003.

**11002 Cardiopulmonary Diseases (4)**

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: PTST 10009; and RTT 11001 and 11003; and respiratory therapy technology (RTT) major. Corequisite: RTT 11004.

**11003 Cardiopulmonary Anatomy and Physiology (3)**

Provides a solid foundation in cardiopulmonary anatomy and physiology with relevant applied physiology as it relates to the profession of respiratory care. Knowledge in this course is essential for successfully completing respiratory therapy courses. Prerequisites: MATH 10024 and RTT 11000; and respiratory therapy technology (RTT) major. Corequisite: RTT 11001.

**11004 Therapeutics I (5)**

Introduction to patient assessment, vital signs, oxygen therapy, aerosol therapy and hyperinflation therapy. There is a laboratory and clinical component to this class for skill check offs and clinical competence. Prerequisite: RTT 11001 and 11003; and respiratory therapy technology (RTT) major. Corequisite: RTT 11002.

**21000 Critical Care (5)**

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 clinical component to this course. Prerequisites: RTT 21001 and respiratory therapy technology (RTT) major. Corequisites: RTT 21003 and 21004.

**21001 Mechanical Ventilation (3)**

The principles of mechanical ventilation: modes, phase variables, triggering, compliance, resistance; indications, contraindications, physiological effects, complications, hazards, assessment, monitoring, weaning and troubleshooting of mechanical ventilation. Prerequisites: RTT 11004 and respiratory therapy technology (RTT) major. Corequisite: RTT 21000.

**21002 Therapeutics II (6)**

Continuation of Therapeutics I including: ECGs, bronchopulmonary hygiene therapy, airway management, obtaining arterial and venous blood. In addition, this course provides an introduction to mechanical ventilation. There is a laboratory and clinical component for skill check offs and clinical competence. Prerequisites: RTT 11004 and respiratory therapy technology (RTT) major. Corequisite: RTT 21001.

**21003 Perinatal and Pediatric Respiratory Therapy (2)**

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, prepares students for the perinatal/pediatric specialty exam from the NBRC. Prerequisites: RTT 21001 and respiratory therapy technology (RTT) major. Corequisites: RTT 21002 and 21004.

**21004 Advanced Diagnostics (2)**

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. Prerequisites: RTT 21001 and respiratory therapy technology (RTT) major. Corequisite: RTT 21002 and 21003.

**21005 Special Fields in Respiratory Therapy (1)**

Other roles for respiratory therapist out of the acute care hospital setting. Prerequisite: RTT 21004 and respiratory therapy technology (RTT) major. Corequisite: RTT 21010.

**21010 Respiratory Therapy Capstone Course (5)**

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. Prerequisites: RTT 21004 and respiratory therapy technology (RTT) major. Corequisite: RTT 21005.

**21095 Special Topics in Respiratory Therapy (1-3)**

Scheduled topics of interest to students and faculty. Prerequisite: RTT 11000.

**21096 Individual Investigation in Respiratory Therapy (1-3)**

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) major.

*\*Course ineligible to be repeated for GPA recalculation.*

**Russian (RUSS)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Russian (RUSS)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

**12201 Elementary Russian I (4)**

An introduction to the Russian language in the context of Russian cultures. Corequisite: RUSS 12211.

**12202 Elementary Russian II (4)**

A continuation of the introduction to the Russian language in the context of Russian cultures. Prerequisite: RUSS 12201 and 12211. Corequisite: RUSS 12212.

**12211 Elementary Russian I Recitation (1)**

Reinforces material presented in Elementary Russian I (RUSS 12201). Must be taken together with Elementary Russian I. Corequisite: RUSS 12201.

**12212 Elementary Russian II Recitation (1)**

Reinforces material present in Elementary Russian II (RUSS 12202). Must be taken together with Elementary Russian II. Prerequisites: RUSS 12201 and 12211. Corequisite: RUSS 12202.

**22201 Intermediate Russian I (4)**

Continued development of speaking, listening, reading and writing skills using a variety of cultural materials. Prerequisite: RUSS 12202. Corequisite: RUSS 22211.

**22202 Intermediate Russian II (4)**

Continuation of RUSS 22201. Prerequisite: RUSS 22201. Corequisite: RUSS 22212.

**22211 Intermediate Russian I Recitation (1)**

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.

**22212 Intermediate Russian II Recitation (1)**

Reinforces material presented in Intermediate Russian II (RUSS 22202). Must be taken together with Intermediate Russian II. Prerequisite: RUSS 22201 and 22211. Corequisite: RUSS 22202.

**22260 Russian Morphology and Vocabulary Building (3)**

A systematic presentation of the extensive root, prefix and suffix system, which provides the basis for rapid acquisition of Russian vocabulary. Prerequisite: RUSS 22202.

**32201 Intensive Russian Grammar (3)**

A systematic approach to Russian grammar and syntax. Prerequisite: RUSS 22202.



**32211 Composition and Conversation (3)**

Grammar review and practice in composition and conversation. Prerequisite: RUSS 22202.

**32215 Russian Phonetics and Diction (3)**

Study of the Russian sound system with special emphasis on pronunciation and intonation. Application of the international phonetic alphabet to Russian. Prerequisite: RUSS 22202.

**32231 Translation Practice: Russian (1)**

Translation practice with Russian texts using principles and techniques learned in the lecture class. To be taken concurrently with MCLS 30230. Corequisite: MCLS 30230.

**32240 Conversation for Business and Special Purposes: Russian (3)**

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.

**32303 Modern Writers (3)**

Reading and analysis of modern Russian plays and stories. Prerequisite: RUSS 22202. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**32325 Russian Poetry and Folklore (3)**

Reading and analysis of major poems and introduction to folklore. Prerequisite: RUSS 32303. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**32350 Russian Prose (3)**

Reading and critical analysis of major prose works. Prerequisite: RUSS 32303. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**32354 Russian Drama (3)**

Reading and critical analysis of major plays. Prerequisite: RUSS 32303. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**32421 Russian Civilization (3)**

A survey of Russian history and intellectual life. Prerequisite: RUSS 32303. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**32501 Russian Literature in English (3)**

This course is designed as a survey of major authors, movements and works of 19th- and 20th-century Russian literature in English translation. No knowledge of Russian required. Prerequisite: sophomore standing.

**42093 Variable Title Workshop in Russian Language and Literature (1-6)**

Workshops individually designed to provide instruction and training in specific areas of Russian studies. S/U grading. Prerequisite: departmental special approval.

**42095 Special Topics in Russian Language and Literatures (1-4)**

Topic to be announced in Schedule of Classes. Repeated registration permitted when content varies. Prerequisite: senior standing.

**42096 Individual Investigation (1-3)**

Independent investigation of problems in Russian language or literature. IP grade permissible. Prerequisites: 6 hours of upper-division Russian (RUSS) and special approval of the department chairperson.

**42211 Advanced Composition and Conversation (3)**

A continuation of RUSS 32211. Prerequisite: RUSS 32211.

**42230 Advanced Translation Practice: Russian (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**42240 Business and Special Texts: Russian (3)**

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.

**42351 Survey of Russian and Soviet Literature (4)**

Survey of major trends and developments in Russian literature from 1900 through 1917 and that of Soviet Russian literature from 1917 to present. Prerequisite: 6 credit hours of upper-division Russian (RUSS).

**42399 Research Project in Russian Language and Literature (3)**

Thesis or other independent study. IP grade permissible. Prerequisite: 6 credit hours of Russian (RUSS) at 40000 level and special approval.

**Secondary Education (SEED)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Secondary Education (SEED)

**32146 Introduction to Content Area Reading (2)**

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.

**32147 Language, Literacy and Learning (3)**

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 advanced standing. Corequisite: SEED 42292. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**32272 Teaching of Speech (4)**

Methods of teaching speech communication, radio-TV-film and theatre in secondary school curricula. This course includes 55 field/clinical hours. 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: advanced standing and ADED 32142.

**32275 Social Studies Education and the Social Sciences (3)**

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. 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: ADED 32142 and advanced standing.

**40093 Variable Title Workshop in Secondary Education (1-4)**

Various topics designed to respond to issues, trends and specialized needs of secondary schools. S/U grading. Prerequisite: special approval.



#### **42157 Teaching with Microcomputers: Secondary Classroom (3)**

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.

#### **42196 Individual Project in Secondary Education (2-4)**

IP grade permissible. Prerequisite: special approval.

#### **42272 Teaching of Computer Science in the Secondary School (4)**

Methodology and materials for effective teaching of secondary school computer science and computer use. Prerequisites: CS 43001 and 33101 and ADED 32142 and admission to advanced study.

#### **42275 Teaching Social Studies in Secondary Schools (3)**

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.

#### **42292 Field Work Practicum (1-4)**

Designed to meet the individual needs of education students who require additional field clinical experiences prior to student teaching. 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: special approval, junior or senior standing.

#### **42295 Special Topics in Secondary Education (2-4)**

Specialized offerings in response to emerging or selected program needs in secondary education. Prerequisite: special approval.

#### **43315 Teaching Literature in the Secondary Schools (3)**

Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom. Prerequisite: advanced standing.

#### **43325 Multi-Modal Literacies in the Secondary Classroom (3)**

Explores the pedagogies of reading and composing with a variety of print and nonprint texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area. Prerequisite: advanced standing.

#### **43335 Teaching Language and Composition (3)**

Explores linguistic and rhetorical perspectives on the teaching of composition in secondary schools. Prerequisites: advanced standing, ADED 32142 and MCED 40007 and SEED 43325 and 43315. Corequisite: ADED 42292.

#### **47248 Teaching Critical Thinking (2)**

Techniques, procedures and materials for developing skills in application of analysis and thinking process. Prerequisites: ADED 32142 and senior standing.

### **Sociology (SOC)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Sociology (SOC)

#### **12050 Introduction to Sociology (3)**

Scientific approach to understanding social interaction, institutions and organization. Prerequisite: none. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

#### **22100 Sociological Analysis (3)**

Fundamental study of sociological analysis designed to provide awareness of theoretical and methodological concepts necessary in developing sociological perspective. Prerequisite: SOC 12050.

#### **22570 Understanding Differences and Inequality (3)**

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.

#### **22778 Social Problems (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirements.

#### **24011 Interpersonal Relationships and Families (3)**

(Cross-listed with HDFS 24011) Exploration of the sociological nature of families across the life span, 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.

#### **31092 Practicum in Sociology (1-3)**

Individual research experience in sociology. S/U grading; IP grade permissible. Prerequisites:

SOC 32210 and junior standing.

#### **32096 Individual Investigation in Sociology (1-3)**

Readings and/or research supervised by member of sociology faculty. Prerequisites: SOC 12050 and junior standing and special approval of instructor.

#### **32210 Researching Society (3)**

Survey of methods and techniques of research; research design and data gathering instruments; qualitative and quantitative analysis. Prerequisites: SOC 12050 and junior standing.

#### **32220 Data Analysis (3)**

The use of quantitative methods in the analysis of data from social research. Emphasis on descriptive statistics. Prerequisites: SOC 12050 and junior standing. Corequisite: SOC 32221.

#### **32221 Data Analysis Laboratory (1)**

Analysis of sociological data utilizing statistical and electronic data processing tools. Corequisite: SOC 32220.

#### **32400 Individual and Society (3)**

Foundations of social psychology; process of socialization; development of social and personal identities; small group and collective behavior; theories of deviance. Prerequisite: SOC 12050 and junior standing.

#### **32510 Sociology of Work (3)**

Consideration of world of work across time and cultures with special emphasis on American society. Impact of work on individuals and other social institutions. Prerequisites: SOC 12050 and junior standing.

#### **32560 Sociology of Families (3)**

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. Prerequisites: SOC 12050 and junior standing. This course may be used to satisfy the diversity requirement.

#### **32565 Sociology of Gays/Lesbians (3)**

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 and junior standing. This course may be used to satisfy the diversity requirement.

#### **32569 Minorities in America (3)**

Study of such major American minorities as blacks, American Indians, Spanish-speaking Americans and American Jews. Prerequisites: SOC 12050 and junior standing.

**32570 Inequality in Societies (3)**

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. Prerequisite: SOC 12050 and junior standing. This course may be used to satisfy the diversity requirement.

**32610 Birth, Death, and Migration (3)**

Determinants and consequences of population change, with emphasis on mortality, fertility and migration. Prerequisites: SOC 12050 and junior standing.

**32673 Urban Sociology(3)**

Examination of the history and development of urban areas, urban sociological theories, and selected topics such as poverty, immigration, race relations and urban planning. Prerequisites: SOC 12050 and junior standing.

**32762 Deviant Behavior (3)**

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 and junior standing.

**42010 Death and Dying (3)**

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. Prerequisites: SOC 12050 and junior standing.

**42092 Internship in Sociology (3)**

Application of sociological knowledge in the work setting. Assist professionals in sites including social services, hospitals, industry and government. Prerequisites: junior standing and sociology (SOC) major and 2.50 GPA and special approval.

**42093 Variable Title Workshop in Sociology (1-6)**

Concentrates on professional or disciplinary concerns. Specific content to vary according to needs of client groups. S/U grading. Prerequisite: special approval.

**42095 Special Topics in Sociology (3)**

(Repeatable for a total of 12 credit hours for majors) Offered irregularly when unusual resources and/or opportunities permit. Topic announced when scheduled. Prerequisites: SOC 12050 and junior standing.

**42126 Sociological Theories (3)**

An examination of classical, modern and postmodern approaches to social theory. Prerequisites: SOC 12050 and junior standing.

This course may be used to satisfy the writing-intensive requirement with approval of major department.

**42224 Interpreting Social Data (3)**

Emphasis on organizing, analyzing and interpreting actual sociological research data making use of basic descriptive and inferential statistics and computer programs. Prerequisites: SOC 32210 or 32220 and special approval.

**42315 Sociology of Changing Gender Roles (3)**

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. Prerequisites: SOC 12050 and junior standing. This course may be used to satisfy the diversity requirement.

**42359 Social Movements (3)**

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.

**42400 Self and Identity (3)**

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.

**42421 Childhood in Society (3)**

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 in the U.S. An exploration of the distinct role of socializing agents - parents and siblings, school, peers and media. Prerequisites: SOC 12050 and junior standing.

**42478 Adolescence in Society (3)**

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 and the significance of youth movements with an emphasis on music as a dominant expression of youth culture. Prerequisites: SOC 12050 and junior standing.

**42558 Wealth, Poverty and Power (3)**

Sociological examination of economic stratification; focuses on the translation of class into power via politics, education and collective struggle. Prerequisites: SOC 12050 and junior standing.

**42561 Sociology of Religion (3)**

Social context of religious ideologies and structures with special reference to religion in America. Prerequisites: SOC 12050 and junior

standing.

**42562 Sociology of Mental Illness (3)**

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. Prerequisites: SOC 12050 and junior standing.

**42563 Sociology of Health and Health Care (3)**

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. Prerequisites: SOC 12050 and junior standing.

**42564 Bureaucratic Organizations (3)**

Analysis of structure and functioning of complex organizations in their cultural context. Prerequisites: SOC 12050 and junior standing.

**42568 Race and Ethnic Studies (3)**

Sociological principles underlying racial and ethnic relations in the United States. Emphasis on social factors of prejudice, discrimination and assimilation affecting all groups. Prerequisites: SOC 12050 and junior standing. This course may be used to satisfy the diversity requirement.

**42575 Family Patterns: a World Perspective (3)**

Cultural variability with respect to courtship, family relationships, child rearing and other patterns in primitive and literate societies. Prerequisites: SOC 12050 and junior standing. This course may be used to satisfy the diversity requirement.

**42577 Sociology of Family Violence (3)**

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. Prerequisites: SOC 12050 and junior standing.

**42870 Interdisciplinary Seminar in Social Gerontology (3)**

Examines the particular role of the practitioner unique to gerontology using case study, cross-cultural comparisons and research analysis. Recommended for students with an major or minor in gerontology. Prerequisite: junior standing and special approval.

**42879 Aging in Society (3)**

Analysis of demographic, sociological and sociopsychological dimensions of aging. Prerequisites: SOC 12050 and junior standing. This course may be used to satisfy the diversity requirement.

**43200 Social Structure and Individual Lives (3)**

Examines conceptualizations for and evidence concerning the effects of social structure on various dimensions of individual lives. Prerequisite: SOC 12050 and junior standing.

**Speech Pathology and Audiology (SPA)**

[University Catalog 2010 - 2011 > Course Information > Course Descriptions Fall 2010 > Speech Pathology and Audiology \(SPA\)](#)

**10001 Auditory Comprehension: Skills and Strategies (2)**

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.

**10002 Introduction to Communication Disorders (2)**

An introduction to speech-language and audiology. Etiologies and manifestations of disorders of the speech, language and hearing process. Prerequisite: none.

**20202 Voice, Articulation and Phonetics (3)**

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.

**33101 Hearing Science (3)**

Acoustics, psychoacoustics, bioacoustics, anatomy and physiology of the ear. Prerequisite: none.

**34102 Applied Phonetics (3)**

Basic principles of speech production and phonetic transcriptions of English with the International Phonetic Alphabet; emphasis on General American Dialect. Prerequisite: none.

**34103 Anatomy and Physiology of Speech (3)**

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.

**34104 Speech and Language Development (3)**

Normal development and linguistic analysis of language systems including phonology, morphology, syntax, semantics and pragmatics. Prerequisites: SPA 34102 or ENG 31001; and special approval.

**34105 Phonemic Bases of Speech and Language (3)**

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 nonmajors only. Prerequisite: none.

**34106 Articulatory and Phonological Disorders (3)**

Assessment and remediation of disorders of articulation and phonology. Prerequisites: SPA 34102 and 34104.

**34107 Language Disorders in Children and Adolescents (3)**

Introduction to assessment and intervention procedures associated with language disorders in children and adolescents. Prerequisites: SPA 34104.

**40104 Communication Disorders in Children and Adolescence (3)**

Orientation to etiologies and remediation of communication disorders found in pediatric and adolescent populations. Prerequisite: Not open to majors in speech pathology and audiology (SPA).

**43300 Speech of the Hearing Impaired (3)**

Basic principles, variables and techniques for understanding, evaluating and improving expressive communication of hearing impaired individuals. Prerequisites: SPA 33101 and 34102 (speech pathology majors); or 34105 and 43600 (education majors).

**43402 Audiometry (3)**

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 and special approval.

**43404 Aural Rehabilitation (3)**

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing-impaired individuals. Prerequisites: SPA 33101 and 34102 and 43402 (speech pathology and audiology majors); or 43600 (education of hearing impaired majors).

**43492 Clinical Preparation in Audiology (2)**

Laboratory exercises and practical experiences in audiometric procedures, test interpretation, counseling and management of the hearing-impaired. Prerequisite: Special approval. Corequisite: SPA 43402.

**43506 Special Issues in Audiology (3)**

Readings and discussion of classic and current research on the evaluation of hearing disorders. Prerequisite: SPA 43402.

**43600 Fundamentals of Educational Audiology (3)**

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.

**44096 Independent Study: Speech Pathology and Audiology (2-6)**

Readings and/or research on problems approved by chairman of department in consultation with student's advisor and project director. IP grade permissible. Prerequisite: senior standing and speech pathology and audiology (SPA) major and special approval.

**44110 Speech Science (3)**

Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders. Prerequisites: SPA 34102 and 34106.

**44111 Neural Processes (3)**

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.

**44112 Age-Related Changes in Communication (3)**

Nonpathological 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.

**44130 Communication Disorders of the Aging (2)**

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. Majors: senior standing.

**44310 Clinical Procedures (3)**

Examination of evaluative and therapeutic procedures used with communicatively impaired children and adults. Prerequisite: SPA 34103 or 34106.

**44492 Clinical Preparation in Speech-Language Pathology (2)**

Fundamental evaluation and management procedures of individuals with communication disorders, including supervised observation. Corequisite: SPA 44310. This course may be

used to satisfy the writing-intensive requirement with approval of major department.

## Sport Administration (SPAD)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Sport Administration (SPAD)

### 15000 Introduction to Sport Administration (2)

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.

### 15015 Orientation to Professional Golf Management (1)

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.

### 25015 Introduction to Golf Professional Training Program (2)

An overview of the Professional Golfers Association of America's golf professional training program (GPTP). An in-depth review of the GPTP standards emphasizing PGA level-one checkpoint requirements is provided and includes portfolio development and self-studies. Prerequisite: SPAD 15015.

### 25059 Sport in Society (3)

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.

### 25092 Practicum I in Sport Administration (1-3)\*

(Repeated registration permissible to a 3 credit-hour maximum) A 105-hour field experience in a sport management setting. S/U grading; IP grade permissible. Prerequisites: sport administration (SPAD) major and special approval from instructor.

### 25192 Practicum in Professional Golf Management I (1)

(Repeated registration permissible to a 3 credit-hour maximum) A cumulative 105 hours on-campus seminar and field experience in a professional golf management setting.

Prerequisites: SPAD 15015 and 25015 and special approval.

### 35015 Golf Management I (2)

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. Prerequisites: SPAD 15015 and 25015 and 25192.

### 35021 Governance in Sport (3)

Issues of governance in amateur and professional sports. Prerequisite: none.

### 35025 Facility Management (3)

Overview of planning, staffing, marketing and managing sport facilities and complexes. Primary emphasis is on management, personnel and operations. Prerequisite: junior or senior standing.

### 35092 Practicum II in Sport Administration (1-3)

(Repeated registration permissible to a 3-credit-hour maximum) A 105-hour field experience in a sport management setting. S/U grading; IP grade permissible. Prerequisites: SPAD 25092 and sport administration (SPAD) major and special approval from instructor.

### 35192 Practicum in Professional Golf Management II (1)

(Repeated registration is permissible to a 3 credit-hour maximum) A cumulative 105-hour field and on-campus seminar class experience in a professional golf management setting. Prerequisites: SPAD 15015 and 25015 and 25192 and special approval.

### 45015 Golf Management II (2)

An in-depth study of the business of golf. topics include maintaining a high performance work environment and motivating techniques for staff, delegating assignments, management performance problems, merchandise assortment plans, vendor relations, inventory management and merchandise display and promotion. Prerequisites: SPAD 15015 and 25015 and 35015.

### 45022 Event Planning and Production (3)

(Cross-listed with ELS 55022) Students learn the proper planning process that all sport events undergo. Students then apply these concepts in actual events that they develop and hold. Prerequisites: junior or senior standing and MKTG 25010.

### 45023 Sport Marketing (3)

Designed around market planning, the course 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.

### 45024 Sport in Global Perspective (3)

Students critically analyze how sport relates to general features of globalization and understand 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.

### 45026 Sport and the Media (3)

An introduction to current scholarship and issues concerning sport and the media, including 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 culture. As such, the roles of institutions, producers, texts and audiences and their relationships to each other are examined. Prerequisite: junior or senior standing.

### 45027 Public Relations and Promotion in Sport (3)

Issues in public relations and promotion of sport, including advertising, crisis management, sales promotion and atmospherics. Prerequisite: MKTG 25010.

### 45030 Sport Enterprise (3)

The capstone for sport administration majors. Designed around business planning for sport, the course 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. Prerequisites: senior standing and special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### 45091 Seminar for Internship Preparation (1)

Prepares students for the internship experience in sport administration. Students must successfully complete this course before registering for internship. Prerequisites: senior standing and special approval.

### 45092 Internship in Sport Administration (6-12)

Supervised full-time experience providing knowledge of overall agency operation in approved sport management setting. Fifty contact hours per credit hour. S/U grading; IP grade permissible. Prerequisites: SPAD 45091 and senior standing and special approval.

### 45096 Individual Investigation in Sport Administration (1-3)

(Repeatable for a maximum of 12 credit hours) Individual investigation in sport administration. IP grade permissible. Faculty approval is required.



Prerequisite: sport administration (SPAD) major and special approval.

#### **45192 Internship in Professional Golf Management (2)**

(Repeated registration permitted) 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 requirement. Prerequisites: SPAD 15015 and 25015 and 25192 and special approval.

#### **46080 Sport and the Law (3)**

A discussion of legal issues as they apply to the sport industry. Prerequisite: junior or senior standing.

#### **46095 Special Topics in Sport Administration (1-3)**

Special topics in sport administration. Course is repeatable. Prerequisite: none.

*\*Course ineligible to be repeated for GPA recalculation.*

### **Spanish (SPAN)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) >

Spanish (SPAN)

*For placement and credit in foreign language courses see Arts and Sciences—Foreign Language Requirement—Placement and Credit.*

#### **18201 Elementary Spanish I (4)**

An introduction to the Spanish language in the context of Hispanic cultures. Prerequisite: none.

#### **18202 Elementary Spanish II (4)**

A continuation of the introduction to the Spanish language in the context of Hispanic cultures. Prerequisite: SPAN 18201.

#### **18301 Spanish for Health Care I (4)**

Introduction to the Spanish language in the context of health care situations, tasks and terminology and Hispanic cultures. Prerequisite: none.

#### **18302 Spanish for Health Care II (4)**

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.

#### **28201 Intermediate Spanish I (3)**

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.

#### **28202 Intermediate Spanish II (3)**

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 28206, but not for both. Prerequisite: SPAN 28201.

#### **28206 Spanish Reading for Comprehension (3)**

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 28206, but not both. Prerequisite: SPAN 28201.

#### **28207 Business Spanish I (3)**

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. Prerequisites: SPAN 28202 and special approval.

#### **28208 Business Spanish II (3)**

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.

#### **28209 Field Study (1-6)\***

(Repeatable for a total of 6 credit hours) For residence and/or field research in a Spanish-speaking community. Prior to registering for this course, students must obtain departmental approval. IP grade permissible. Prerequisite: special approval.

#### **28212 Studies in Grammar (4)**

This course provides a comprehensive grammar review for students who need to improve their skills prior to taking advanced language courses. Prerequisite: SPAN 28202.

#### **38211 Spanish Grammar and Composition (3)**

This course provides an intensive grammar study and further written practice to help advanced intermediate students express complex ideas in Spanish. Prerequisite: SPAN 28202.

#### **38213 Spanish Reading and Conversation (3)**

This course provides reading techniques and develops oral skills to help advanced intermediate students express complex ideas in Spanish. Prerequisite: SPAN 38211.

#### **38215 Spanish Phonetics and Diction (3)**

Study of the modern Spanish sound system with special emphasis on pronunciation and intonation. Prerequisite: SPAN 38211.

#### **38231 Translation Practice: Spanish (3)**

Translation practice with Spanish texts using principles and techniques learned in the lecture class. Corequisite: TRST 30230.

#### **38240 Conversation for Business and Special Purposes: Spanish (3)**

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.

#### **38330 Early Spanish Literature (3)**

Outline of development, reading of representative works, to 1700. Prerequisite: SPAN 38211. This course may be used to satisfy the writing-intensive requirement with approval of major department.

#### **38331 Recent Spanish Literature (3)**

Outline of development, reading of representative works, 1700-present. Prerequisite: SPAN 38211. This course may be used to satisfy the writing-intensive requirement with approval of major department.

#### **38334 Early Spanish-American Literature (3)**

Outline of development, reading of representative works, including indigenous literature, 1492-1882. Prerequisite: SPAN 38211. This course may be used to satisfy the writing-intensive requirement with approval of major department.

#### **38335 Recent Spanish-American Literature (3)**

Outline of the development of modern Spanish-American literature (1882 to the present). Reading of representative works. Prerequisite: SPAN 38211. This course may be used to satisfy the writing-intensive requirement with approval of major department.

#### **38421 Civilization of Spain (3)**

General survey of evolution of Spanish civilization from antiquity to present day. Prerequisite: SPAN 38211.

#### **38424 Culture and Civilization of Latin America (3)**

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.

#### **48093 Variable Title Workshop in Spanish (1-6)**

Workshops individually designed to provide instruction and training in specific areas of Hispanic studies. S/U grading. Prerequisite: departmental special approval.

#### **48095 Selected Topics in Spanish (3)**

(Repeatable for a total of 9 credit hours) Topic announced in Schedule of Classes. Prerequisite: 9 credit hours above 20000 level of Spanish (SPAN) courses.

#### **48096 Individual Investigation (1-3)**

(Repeatable for a total of 6 credit hours) 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. IP grade permissible. Prerequisite: special approval.

#### **48215 Advanced Spanish Composition and Conversation (3)**

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 38213 and one of the following: SPAN 38330 or 38331 or 38334 or 38335.

#### **48216 Contemporary Hispanic Culture (3)**

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world. Prerequisite: 6 credit hours from 30000-level Spanish (SPAN) courses.

#### **48230 Advanced Translation Practice: Spanish (3)**

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. This course may be used to satisfy the writing-intensive requirement with approval of major department.

#### **48240 Business and Special Texts: Spanish (3)**

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.

#### **48340 Medieval Spanish Poetry (3)**

Spanish poetry from its origins to 1500. Prerequisites: 6 credit hours of SPAN 38330 and 38331 and 38334 and 38335.

#### **48350 Don Quixote (3)**

A penetrating study of Cervantes' masterpiece. Prerequisites: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48351 Minor Works of Cervantes (3)**

La Numancia, Entremeses, La Galatea, Novelas ejemplares. Prerequisites: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48352 Medieval Spanish Prose (3)**

The development of medieval Spanish prose, with special emphasis on La Celestina. Prerequisites: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48354 Neoclassicism and Romanticism (3)**

Survey of neoclassicism and romanticism in Spain. Prerequisite: 9 credit hours of Spanish (SPAN) courses above the SPAN 38211 level.

#### **48356 Golden Age Prose (3)**

Study of the development of the various forms of prose fiction during the Spanish Golden Age. Prerequisites: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48358 Nineteenth-Century Novel (3)**

Analysis and critical interpretation of outstanding representatives of 19th-century novel. Prerequisites: SPAN 38421 and 38331.

#### **48360 Twentieth-Century Spanish Drama (3)**

Representative works of leading Spanish dramatists of the 20th century. Prerequisites: SPAN 38421 and 38331.

#### **48364 Generation of '98 and After (3)**

Intensive reading of representative works with examination of the history leading to this group. Prerequisites: SPAN 38421 and 38331.

#### **48366 The Novel of the Mexican Revolution (3)**

A critical sociocultural and literary examination of selected Mexican novels that explore a variety of responses to the first major 20th-century mass upheaval in Latin America known as the Mexican Revolution. Prerequisites: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48370 Modernismo in Spanish-America (3)**

Ruben Dario and other writers of the modernista movement; works include modernist poetry, short story and essay. Prerequisites: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48372 Spanish-American Novel I (3)**

A cultural and literary analysis of selected major Spanish-American novels written between 1900 and 1950. Prerequisite: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48373 Spanish American Novel II (3)**

A cultural and literary analysis of selected major Spanish-American novels written from 1950 to the present. Prerequisite: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48374 Modern Spanish American Drama (3)**

Analysis of selected plays from various Spanish-American countries. Prerequisites: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48376 Contemporary Spanish-American Short Story (3)**

The development of the Spanish-American short story from 1917 to the present. Prerequisites: 6 credit hours from SPAN 38330 and 38331 and 38334 and 38335.

#### **48378 U.S. Latina/o Writers (3)**

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers. Develops oral and listening skills in Spanish and strengthens critical thinking on

various cultural and literary matters.

Prerequisites: SPAN 38211 and 38213 and one of the following—SPAN 38330 or 38331 or 38334 or 38335.

#### **48422 Early Spanish-American Discourse (3)**

This course provides a critical analysis of cultural and literary issues on texts dealing with early Colonial Spanish-American expression. Prerequisites: SPAN 38213 and 38334.

#### **48423 Spanish-American Indian Discourse (3)**

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. Prerequisites: SPAN 38213 and 38334.

### **Special Education (SPED)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Special Education (SPED)

*Note: Field experience includes seminars, participation and evaluation under supervision of experienced personnel.*

#### **19201 American Sign Language I (4)**

(Cross-listed with ASL 19201) An introduction to American Sign Language and deaf culture. Development of beginning visual-receptive ASL skills and introductory expressive skills. Prerequisite: none.

#### **19202 American Sign Language II (4)**

(Cross-listed with ASL 19202) 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.

#### **23000 Introduction to Exceptionalities (3)**

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. Fifteen clinical hours. Prerequisite: none. This course may be used to satisfy the diversity requirement.

#### **29201 American Sign Language III (3)**

(Cross-listed with ASL 29201) 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.

#### **29202 American Sign Language IV (3)**

(Cross-listed with ASL 29202) 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.

**39201 American Sign Language V (3)**

(Cross-listed with ASL 39201) 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.

**39202 American Sign Language VI (3)**

(Cross-listed with ASL 39202) 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. Prerequisites: ASL 30201 or SPED 39201 and admission to advanced study.

**40093 Workshop in Special Education (1-5)**

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. S/U grading; IP grade permissible. Prerequisite: none.

**43010 Family and Professional Collaboration (3)**

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. Twenty-hour clinical and 10-hour field work. Prerequisites: SPED 23000 and admission to advanced study.

**43020 Assessment in Special Education (3)**

Use/interpretation normed, criterion-referenced and informal curriculum-based assessments for students with mild/moderate disabilities. Standards-based alternative assessments for students with intensive needs. 10 field and 20 clinical hours. Prerequisites: admission to advanced study and CI 47501 and 47504. Corequisite: SPED 44092 or 44192 or 43392 or 43992. Special fee: \$60 flat fee—subject to change. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**43030 Applied Behavior Analysis I: Theory and Techniques (3)**

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. Includes 25 field hours.

Prerequisites: SPED 23000 and admission to advanced study.

**43031 Applied Behavior Analysis II: Application (3)**

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, management and assess behavior. Specific behavioral interventions are presented. Includes 40 hours of field work. Prerequisites: SPED 43030 and admission to advanced study.

**43040 Language and Reading in Special Education (3)**

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. Includes 15-hour clinical and 15-hour field work. Prerequisites: admission to advanced study and ECED 40105 and 40126; and CI 47504; and admission to advanced study.

**43050 Characteristics of Students with Mild/Moderate Intervention Needs (3)**

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. Ten-hour clinical and 10-hour field work. Prerequisite: SPED 23000.

**43051 Characteristics of Students with Moderate/ Intensive Intervention Needs (3)**

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. Ten-hour clinical and 10-hour field work. Prerequisite: SPED 23000.

**43060 Curriculum Methods in Special Education (3)**

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. Includes 33 hours of field and clinical work. Prerequisite: admission to advanced study.

**43062 Curriculum****Methods Mild/Moderate Intervention (3)**

Delivery and adaptation of evidence-based practices for students with mild/moderate disabilities. Emphasis on achievement in general curriculum. Training to mentor other

professionals. Prerequisites: SPED 43060 and admission to advanced study.

**43063 Curriculum Methods II:****Moderate/Intensive Intervention (3)**

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. Prerequisites: SPED 43020 and 43030 and 43061. Corequisites: SPED 44192 and 43040 and admission to advanced study.

**43070 Planning and Programming for Transitions (3)**

Addresses life span community participation and the planning, support development, and services available to accomplish it. Introduction to community agencies and adult services. Ten-hours of clinical and 15-hours of field work. Prerequisites: SPED 43050 or 43051 and admission to advanced study.

**43080 Assistive Technology for Students with Disabilities (3)**

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. Includes 20 hours of clinical work. Prerequisites: SPED 43050 and 43051 and admission to advanced study.

**43092 Deaf Residential School Experience (1-3)**

(Cross-listed with ASL 49092) 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 is evaluated by staff at the school. S/U grading. 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.

**43100 Survey of the Interpreting Profession (3)**

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.

**43101 Deaf Culture and Community (3)**

(Cross-listed with ASL 49101) 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.

### **43102 Interpreting Processes Deaf/Hard-of-Hearing I (3)**

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. Preschool, primary, elementary students developmentally delayed through gifted academic levels. Prerequisites: ASL 29202 or SPED 29202; and admission to advanced study.

### **43103 Interpreting Processes Deaf/Hard-of-Hearing II (3)**

Intermediate/advanced level interpreting course voice-to-sign and sign-to-voice processes using simultaneous and consecutive strategies: ASL, SEE, signed English, total communication signing. Focus on middle school/high school/postsecondary students developmentally delayed through gifted academic levels. Requires 30 hours of field experience. Prerequisites: ASL 39201 or SPED 39201; and SPED 43102 and 43105 and admission to advanced study.

### **43104 Advanced Voice-to-Sign Interpreting (3)**

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 language usage and patterns, regional/local variations; age, gender, register variations. Requires 30 hours field experience. Prerequisites: ASL 39202 or SPED 39202; and SPED 43103 and admission to advanced study.

### **43105 Signed English and Other Systems (3)**

(Cross-listed with ASL 49105) 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 speed; 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.

### **43106 Classroom Setting Interpreting (3)**

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.

### **43107 Nonclassroom Setting Interpreting (3)**

Issues and challenges of nonclassroom-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.

### **43108 American Sign Language Linguistics and Usage (3)**

(Cross-listed with ASL 49108) 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.

### **43109 Cued Speech and Oral Interpreting (3)**

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.

### **43110 Discourse Analysis for Interpreters (3)**

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. Prerequisites: SPED 43100 and 43102 and 43106 and 43107. Corequisite: SPED 43101.

### **43111 The Professional Interpreter (3)**

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. Prerequisites: SPED 43100 and 43106 and 53100 and 53106.

### **43192 Practicum in Educational Interpreting (1-3)**

(Repeated registration permissible) Field-based practicum experience provides preservice 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. Prerequisites: ASL 29202 or SPED 29202; and SPED 43100 and admission to advanced study.

### **43309 Introduction to Deaf Studies (3)**

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. Includes 20 hours of field work. Prerequisite: none. This course may be used to satisfy the writing-intensive requirement with approval of major department.

### **43310 Language Development for Deaf and Hard-of-Hearing Students (3)**

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 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.

### **43311 Instruction of Deaf/Hard-of-Hearing Students with Special Needs (3)**

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: SPED 43313 with a minimum grade of B (3.0); and admission to advanced study. Corequisite: 2 credit hours of SPED 43392.

### **43313 Literacy Assessment and Intervention for Deaf/Hard-of-Hearing Students (6)**

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 minimum grade of B- (2.7); SPED 19202 or ASL 19202 with minimum grade of B- (2.7); and CI 47504 or ECED 40126; and admission to advanced study. Corequisite: 2 credit hour of SPED 43392. Special fee: \$25 flat fee—subject to change.

### **43316 Early Childhood Deaf Education: Family and Child Service Provision (3)**

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; and ASL 29202 or SPED 29202 or Sign Language Proficiency Interview (SLPI) at intermediate or above.

**43324 Curriculum Methods and Materials for Deaf/Hard-of-Hearing Students (3)**

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.

**43392 Practicum: Deaf Education (1-3)**

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. S/U grading; IP grade permissible. Prerequisites: SPED 29202.

**43529 Nature and Needs of Gifted Children (3)**

Personal characteristics, abilities and potentialities of gifted through review of related research. Evaluation of research findings and implications for psycho-educational development. Prerequisites: PSYC 11762 and sophomore standing.

**43530 Instructional Processes for Gifted Children (3)**

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.

**43534 Social and Emotional Components of Giftedness (3)**

Affective growth of gifted persons is reviewed through research literature and analysis of case studies. Reviews adjustment problems of gifted youth and adults. Prerequisites: PSYC 11762 and sophomore standing.

**43981 Student Teaching in Special Education (4-9)**

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 school-based mentor

teacher and the university supervisor. S/U grading; IP grade permissible. 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: admission to advanced study. Corequisite: SPED 49525.

**43991 Seminar in Special Education (1-3)**

Undergraduate seminar in special education; varied topics. Prerequisite: admission to advanced study.

**43992 Field Experience in Special Education (2-4)**

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. S/U grading; IP grade permissible. Prerequisite: admission to advanced study.

**43996 Individual Investigation in Special Education (1-10)**

S/U grading; IP grade permissible. Prerequisite: special approval.

**44092 Field Experience for Mild/Moderate Intervention Specialist (2-3)**

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. Prerequisites: SPED 43992 and 43020 and 43060. Corequisites: SPED 43060 and 43992 and admission to advanced study.

**44192 Field Experience for Moderate/Intensive Intervention Specialist (2-3)**

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. Prerequisites: SPED 43992 and 43060 and admission to advanced study.

**49525 Inquiry Seminar into Professional Practice (3)**

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. Prerequisites: admission to advanced study. Corequisite: SPED 43981.

**Summer Visual Communication Design (SVCD)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Summer Visual Communication Design (SVCD)

**45011 Summer Design Studio (1-4)**

(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: special approval.

**Technology (TECH)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) >

Technology (TECH)

*Includes: Aeronautics, Industrial Technology, Technology and Technology Education*

**10001 Information Technology (3)**

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. Special fee: \$25 flat fee—subject to change.

**11071 Woods Technology I (3)**

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. Special fee: \$100 flat fee—subject to change.

**11083 Technical Drawing and Sketching (3)**

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.

**13580 Engineering Graphics I (3)**

Technique of engineering drawing, lettering, instrument use, freehand drawing, orthogonal projection, sections, single and double auxiliaries, dimensioning, screw threads, charts and graphs. Prerequisite: none. Special fee: \$25 flat fee—subject to change.

**15000 Introduction to Aeronautics (3)**

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

**15100 Women and Minorities in Aviation (3)**

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.

**15250 FAA Orientation (3)**

Introduction to the Federal Aviation Administration with particular emphasis on its role and impact on air traffic management and the National Airspace System (NASA). 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: TECH 15000.

**15740 Elements of Flight Theory (5)**

Basic instruction in all areas which gives the student aeronautical knowledge required for a private pilot certificate. IP grade permissible. Corequisite: TECH 15741.

**15741 Private Pilot Flight (3)**

Flight course designed to fulfill FAA requirements for private pilot certificate. IP grade permissible. Prerequisites: TECH 15000 and 2.50 GPA. Corequisite: TECH 15740. Special fee: \$7,000 flat fee—subject to change.

**15742 Private Pilot Helicopter Flight (3)**

Flight course designed to fulfill Federal Aviation Administration (FAA) requirements for the private pilot helicopter certificate. Prerequisites: TECH 15740 and cumulative GPA of 2.50. Corequisite: TECH 35101.

**15743 Private Pilot Helicopter Flight Add-On (2)**

Flight course designed to fulfill Federal Aviation Administration (FAA) requirements for the private pilot helicopter certificate. Prerequisites: TECH 15742 and cumulative GPA of 2.0. Corequisite: TECH 35101.

**20001 Energy/Power (3)**

Study of basic thermodynamic laws and how they apply to the conversion and transfer of heat energy into useful power. Prerequisite: TECH 21021. Special fee: \$25 flat fee—subject to change.

**20002 Materials and Processes (3)**

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. Special fee: \$80 flat fee—subject to change.

**20004 Fundamentals of Electronic Circuits (4)**

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 MATH 11022. Corequisite: MATH 12002. Special fee: \$25 flat fee—subject to change.

**21021 Survey of Electricity and Electronics (4)**

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 majors. Prerequisite: MATH 12001 or corequisite MATH 11022. Special fee: \$25 flat fee—subject to change.

**21046 Graphic Communications Technology I (3)**

An orientation to layout, composition and press operations as applied to the graphic communications processes of lithography, screen and relief printing. Prerequisite: none. Special fee: \$25 flat fee—subject to change.

**21071 Construction Materials, Methods and Techniques (3)**

Covers current construction materials and their applications in commercial and residential construction buildings. Prerequisite: none. Special fee: \$90 flat fee—subject to change.

**22200 Construction Document Reading (3)**

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. Special fee: \$45 flat fee—subject to change.

**22095 Special Topics in Technology (1-4)\***

(Repeated registration permissible) Various special topics to be announced in the Schedule of Classes, offering current topics in technology-based areas of study. IP grade permissible. Prerequisite: special approval.

**22100 Training Topics in Technology (1-4)\***

(Repeated registration permissible) 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: special approval.

**23200 Electronic Circuit Fabrication Laboratory (1)**

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. Special fee: \$50 flat fee—subject to change.

**23224 Electrical Circuits II (3)**

Intermediate electric circuit analysis. Reactance, impedance, network theorems and analysis. Resonance in series and parallel circuits. Applications. Includes laboratory. Prerequisite: TECH 20004. Special fee: \$25 flat fee—subject to change.

**23581 Computer-Aided Engineering Graphics (3)**

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 13580. Special fee: \$30 flat fee—subject to change.

**25250 Elements of Aviation Weather (3)**

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: TECH 15000.

**25350 Fundamentals of Air Traffic Control (2)**

Introduction to the National Airspace System (NASA) 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: TECH 15250.

**25351 Fundamentals of Air Traffic Control Laboratory (1)**

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: TECH 15250. Corequisite: TECH 25350. Special fee: \$450 flat fee—subject to change.

**25743 Commercial Pilot Flight I (2)**

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: TECH 15740 and 15741. Special fee: \$7,500 flat fee—subject to change.

**31000 Cultural Dynamics of Technology (3)**

Study of technology and the forces it exerts upon society. Prerequisite: none. This course may be used to satisfy the writing-intensive requirement and diversity requirement with approval of major department.

**31010 Engineering and Professional Ethics (3)**

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.



**31015 Construction Technology (3)**

Laboratory, lecture and field experience which relate to the construction industry and its relationship to our society. Prerequisite: TECH 13580 or 11083. Special fee: \$100 flat fee—subject to change.

**31016 Manufacturing Technology (3)**

Classroom, laboratory and field experiences involving the major aspects of a manufacturing enterprise, including product design, production, financing and marketing. Prerequisites: TECH 10001 and 13580 and 20002.

**31020 Automated Manufacturing (3)**

Theory and operation of computer controlled machine tools, robots and processes. Prerequisite: none.

**31023 Construction Surveying (3)**

Covers the study of surveying including field work with equipment such as transit, level and tape. Prerequisite: TECH 22200. Special fee: \$75 flat fee—subject to change.

**31032 Power Technology (3)**

Principles of energy conversion and power application. Overview of basic heat engines, machines and transmission devices. Alternative energy systems and conservation techniques. Prerequisites: TECH 20004 and 20001.

**31043 Principles of Concrete Construction (3)**

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. Special fee: \$75 flat fee—subject to change.

**31044 Construction Occupational Safety and Health (3)**

Focuses on making the theories and principles of construction safety and health practical and useful in a real world setting. Prerequisite: none.

**31047 Graphic Communications Technology II (2)**

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.

**31055 Plastics Technology I (1)**

Design and development of ideas in plastics; study of the plastic industry, occupations, materials, products and processes. Prerequisite: junior or senior standing.

**31065 Cast Metals (3)**

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. Special fee: \$80 flat fee—subject to change.

**31067 Machining Technology I (3)**

Lecture and laboratory experiences in basic machine tool principles and processes. Prerequisite: none.

**31071 Woods Technology II (2)**

Emphasis on basic woodworking machinery processes, fundamental construction and materials. Project design and development. Prerequisite: TECH 11071. Special fee: \$100 flat fee—subject to change.

**31087 Design for Technology (3)**

Design as creative process. Individual and group experiences in problem solving. Relevance to art, industry and education. Prerequisite: TECH 13580 23581 and 31016. Special fee: \$20 flat fee—subject to change.

**32002 Materials and Processes II (3)**

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. Special fee: \$80 flat fee—subject to change.

**32100 Fundamentals of Radiation Technology (3)**

Study of the generation and application of radiation to everyday and industrial applications. Includes sound, RF and microwaves, light and ionizing radiation. Prerequisite: MATH 11022 or 12001 or 19002.

**32101 Polymers I (3)**

Description of various polymers, thermoplastics and thermosets. Processes used to produce products. Outline of polymer chemistry including methods of testing and identification. Prerequisite: none.

**32102 Polymers II (3)**

Comprehensive review of resin systems and fiber reinforcement for use in production of FRP products; fabrication procedures; comparative properties. Prerequisite: TECH 32101.

**32105 Construction Jobsite Management (3)**

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.

**33010 Computer Hardware (3)**

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. Special fee: \$50 flat fee—subject to change.

**33016 PC/Network Engineering and Troubleshooting (3)**

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 or TECH 33010.

**33031 Programmable Logic Controllers (3)**

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 (HMIs). Prerequisites: TECH 10001 and 21021.

**33033 Hydraulics/Pneumatics (3)**

Fluid properties, hydraulic design, viscosity, hydraulic components, pumps, systems and circuits, maintenance and safety, pneumatics, air systems control and design. Prerequisites: MATH 11022 or 12001; and PHY 13001 or 23101. Special fee: \$40 flat fee—subject to change.

**33056 Cooperative Education-Professional Development (1 or 2)**

(Repeatable for a total of 4 credit hours) Supervised work-study experience in approved business or industrial environment relevant 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. IP grade permissible. Prerequisites: sophomore standing and 2.25 GPA and special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**33095 Special Topics: Applied Science and Technology (1-3)**

(Repeated registration permitted) Special topics of immediate interest in applied science and technology. Prerequisite: junior standing and special approval.

**33111 Strength of Materials (3)**

An analytical study of the relaxation between the external forces applied to elastic materials and the resulting deformations and stresses. Prerequisite: PHY 13001.

**33220 Electronic Devices (4)**

Introduction to electronic non-linear devices including diodes, transistors, optoelectronic devices and operational amplifiers. Use and application of these devices in different types of applications like rectifiers, amplifiers and linear integrated circuits. Prerequisite: TECH 20004. Corequisite: TECH 23200. Special fee: \$25 flat fee—subject to change.

**33222 Digital Design and Applications (3)**

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 21021. Special fee: \$30 flat fee—subject to change.

### **33223 Electronic Communication (3)**

Electronic circuits and systems with emphasis on their application in communications systems. Prerequisite: TECH 33220.

### **33225 Industrial Control Systems (3)**

The application of electronics to the control of industrial machines and processes. Includes laboratory. Prerequisite: TECH 33220.

### **33363 Metallurgy and Materials Science (3)**

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.

### **33580 Engineering Graphics for Electronics (3)**

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. Prerequisites: TECH 13580 and 33220.

### **33700 Quality Techniques (4)**

Process variability, process monitoring, statistical methods using control charts for variables and attributes, acceptance sampling plans, process capability, process adjustment, design of experiments and process improvement. Prerequisite: special approval.

### **33870 Facility design and Material Handling (3)**

Provides 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: junior standing. Special fee: \$25 flat fee—subject to change.

### **34000 Computer Animation II (3)**

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.

### **34001 Computer Animation III (3)**

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.

### **34002 Advanced CAD II (3)**

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. Prerequisites: MERT 12001 and CADT 22000; or TECH 23581. Special fee: \$40 flat fee—subject to change.

### **34003 Animation Theory (3)**

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.

### **34004 Technology of Light, Color, Design and Layout (2)**

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.

### **35001 Aircraft Fabrication (3)**

The study and laboratory practice of government-approved procedures used in the fabrication, repair and testing of certificated aircraft. Prerequisites: TECH 15000 and MATH 12001 and PHY 13001.

### **35020 Aircraft Propulsion Systems (3)**

A study of reciprocating engines, aircraft propellers and turbine engines. Course investigates basic theory, component function, performance characteristics and propulsion-related systems. Prerequisites: TECH 15000 and MATH 12001; and PHY 13001 and 13002 or PHY 23101 and 23102.

### **35040 Aircraft Systems I (3)**

Introduction to various aircraft systems including electrical, mechanical and hydraulic systems and their performance as applied to aircraft. Prerequisites: TECH 15000 and MATH 12001; and PHY 13001 and 13002 or PHY 23101 and 23102.

### **35095 Special Topics in Aeronautics (1-3)**

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.

### **35101 Helicopter Theory and Operation (3)**

Study of the helicopter flight and operations that includes rotor system dynamics, control functions, major components, operation and performance. Prerequisite: TECH 15000 and 25250. Special fee: \$240 flat fee—subject to change.

### **35150 Aircraft Structures (3)**

Aircraft structural design investigations dealing with theory and applications in aviation. Prerequisites: TECH 15000 and MATH 12001 and PHY 13001 and 13002. Special fee: \$50 flat

fee—subject to change.

### **35340 Airport Management (3)**

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: TECH 15000.

### **35341 Air Transportation Systems (3)**

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: TECH 15000.

### **35342 Air Traffic Control (3)**

Study of the fundamental concepts of air traffic control and airspace management in the National Airspace System (NASA), with an emphasis on the interaction between terminal and en route traffic control functions. Prerequisites: TECH 15000 and 15740 and 25250. Special fee: \$450 flat fee—subject to change.

### **35343 En Route Air Traffic Control (2)**

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: TECH 25250 and 25350 and 35342.

### **35344 En Route Air Traffic Control Laboratory (1)**

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. Prerequisites: TECH 25250 and 25350 and 35342. Corequisite: TECH 35343. Special fee: \$450 flat fee—subject to change.

### **35644 Instrument Flight Theory (3)**

Comprehensive instruction presenting theoretical and practical aspects of instrument and weather flying. Prerequisites: TECH 15740 and 25250. Corequisite: TECH 35645. Special fee: \$5 flat fee—subject to change.

### **35645 Instrument Pilot Flight (2)**

Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA instrument rating. Prerequisites: TECH 25250 and 25743. Corequisite: TECH 35644. Special fee: \$8,500 flat fee—subject to change.

### **35646 Instrument Helicopter Flight (2)**

Flight course designed to fulfill FAA requirements for the Instrument Helicopter Rating. Prerequisites: TECH 15742 or 15743; special approval; and minimum cumulative 2.00 GPA. IP grade permissible. Corequisite: TECH 35644. Special fee: \$10,500 flat fee—subject to change.

**35647 Commercial Pilot Flight II (2)**

Comprehensive flight course for the professional pilot candidate with emphasis on commercial flight maneuvers and instrument flight review. IP grade permissible. Prerequisites: TECH 35644 and 35645. Special fee: \$6,000 flat fee, Fixed Wing—subject to change.

**35648 Instrument Helicopter Flight Add-On (1)**

Flight course designed to fulfill FAA requirements for the Instrument Helicopter Rating. IP grade permissible. Prerequisites: TECH 35645 and minimum cumulative 2.00 GPA. Corequisite: TECH 35101. Special fee: \$4,000 flat fee—subject to change.

**35746 Commercial Pilot Theory (2)**

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

**35747 Commercial Pilot Flight III (2)**

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: TECH 35644 and 35645. Corequisite: TECH 35746. Pre/corequisite: TECH 35647. Special fee: \$6,000 flat fee—subject to change.

**35748 Commercial Pilot Helicopter Flight Add-On (2)**

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

**35749 Commercial Pilot Helicopter Flight (3)**

Flight course designed to fulfill FAA requirements for the Commercial Pilot Helicopter certificate. IP grade permissible. Prerequisites: TECH 15742 or 15743; and minimum cumulative 2.00 GPA. Corequisite: TECH 35746. Special fee: \$27,800 flat fee—subject to change.

**36008 Ergonomics in Computer Systems (3)\*\***

This course introduces students to ergonomics, usability design, assessment methods and safety for the development of computer systems. Prerequisites: ENG 20002 and PSYC 11762 and junior standing.

**36095 Special Topics in Computer Technology (2 or 3)\*\***

Various special courses will be announced in the Schedule of Classes under this course number with different section numbers. Prerequisite: special approval.

**36110 Principles of Fraud Examination (3)**

Study of occupational fraud and abuse; its detection and prevention within the realm of an enterprise. Prerequisite: ACTT 21000.

**36120 Ethical Issues Relating to Fraud Examination (3)**

Understanding ethical dilemmas, issues and professionalism relating to fraud examination. Prerequisite: TECH 36110.

**36301 Advanced C++ Programming (4)**

Laboratory course using C++: classes and data abstraction, stream I/O, inheritance, standard template library, Microsoft foundation classes, system programming concepts using Unified Modeling Language. Prerequisite: COMT 20001.

**36310 Multimedia Development Tools (3)**

Course focuses on advanced technologies for Web development, including DHTML, plug-ins, etc. Students will learn to create more interactive and dynamic Web sites. Prerequisites: COMT 21011 and 21036 or COMT faculty special approval.

**36311 Advanced Java Programming (4)**

Laboratory course using Java abstract data types and objects, object-oriented/event-driven design, file organization and access and systems programming concepts. Prerequisite: COMT 20011.

**36318 Survey of Information Security, Internet Fraud and Computer Forensics (3)**

This lecture-based, survey course provides a non-technical introduction to contemporary issues in information security, Internet fraud and computer forensics. Prerequisites: ENG 21011 and junior standing.

**36320 Computer Forensics (3)**

This lecture/laboratory course emphasizes hands-on skills in incident response, forensic preparation, and data recovery and analysis. Prerequisites: COMT 21002.

**36330 Local Area Network Security Fundamentals (3)**

This lecture/laboratory course will examine the primary issues involved in securing resources in a LAN including threat assessment, countermeasures, best practices, security protocols, cryptography and management-related issues. Prerequisites: COMT 21002.

**36336 Web Scripting II (3)**

This course will focus more in-depth on selected scripting topics needed to create interactive and dynamic Web sites. Prerequisite: COMT 21036 or COMT faculty special approval.

**36350 Programming Office Productivity Applications (3)**

Introduces the use of Visual Basic for Applications as a tool to create customized programs that automate repetitive and/or complex tasks performed using office suite applications. Prerequisites: COMT 11002 and 21010.

**36401 Applications of Technology Management Software (3)**

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 two hours lecture, one hour lab. Prerequisite: BMRT 11000 and COMT 12000 and MATH 11011 or full-time applied-business faculty special approval.

**36410 Security for Business Students (3)**

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.

**36415 Customer Service Technology (3)**

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. Prerequisites: junior standing and BMRT 11000.

**36420 Physical Security (3)**

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.

**36430 Security Management (3)**

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.

**36440 Security Investigation (3)**

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.

**36595 Special Topics in Microsoft Certification (3)**

(Repeated registration permissible) Special topics courses which prepare students for Microsoft professional certifications. Prerequisite: special approval. Special fee: \$400 flat fee—subject to change.

**36620 Coordinating Technical Projects (3)**

Organization and coordination of project-based management functions utilizing project management software to visualize what has been planned. Prerequisite: junior standing.

**41001 Methods in Technology Education (3)**

Methods of teaching curriculum development and evaluation which are unique to the profession of technology education. Prerequisite: special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41002 Organization in Technology Education (3)**

Principles and practices involved in housing, equipping, organizing, maintaining and operating industrial arts/technology education courses. Prerequisite: junior standing.

**41040 Construction Estimating I (3)**

Introduction to estimating and the quantity takeoff process needed to complete accurate estimates for all types of construction projects. Prerequisite: TECH 22200. Special fee: \$45 flat fee—subject to change.

**41041 Commercial Construction Estimating (3)**

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. Special fee: \$45 flat fee—subject to change.

**41051 Foundations and Contemporary Theories of Technology Education (3)**

This course explores the history, contemporary theories and practices of technology education. Included are site visits to exemplary technology education programs. Prerequisite: none.

**41052 Technology and Engineering for K to 8 STEM (3)**

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. Special fee: \$20 flat fee—subject to change.

**41055 Industrial Practice (1-8)**

(Repeatable for a total of 8 credit hours) Practical experience in industry of cooperative work-study nature. Prerequisite: junior standing.

**41093 Variable Title Workshop in Technology (1-3)**

(Repeated registration permissible) Specialized instructional unit oriented toward the application of current technology concepts. S/U grading, IP grade permissible. Prerequisite: special approval.

**41096, 41196 Individual Investigation In Technology Education (1-4)**

(Repeatable for a total of 4 hours) Individual investigation course. IP grade permissible. Prerequisites: special approval by department.

**42100 Training Topics in Technology (1-4)**

(Repeated registration permissible) 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: special approval.

**42105 Construction Contracts (3)**

An introductory course on construction contracts and how they are used in the construction industry. Prerequisite: junior or senior standing. Special fee: \$45 flat fee—subject to change.

**42107 Construction Scheduling (3)**

Covers the traditional theory on planning, scheduling and controlling construction projects. Current industry computer applications for scheduling will be utilized. Prerequisite: TECH 32105. Special fee: \$45 flat fee—subject to change.

**42200 Radiation Sources and Processing (3)**

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. Prerequisites: PHY 13002 or 12202; and MATH 12002 or 19002; and TECH 32100 and 33363.

**42300 Radiation Detection Technology (3)**

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. Prerequisites: TECH 21021 or 23224 or EERT 12001; and TECH 42200.

**42400 Radiation Dosimetry and Safety (3)**

Basic concepts of dosimetry and its units as applied to radiation technology, including theory of dosi-meter response. Safety principles and practices followed in radiation environments, including terminology, policies and procedures to minimize exposure to radiation. Prerequisite: TECH 42200.

**42500 Laboratory in Radiation and Materials (3)**

Laboratory investigation into the effects of radiation on materials, including dosimeters. Methods employed include spectroscopy, thermal analysis, optical microscopy and mechanical properties. Prerequisites: TECH 42300 and 42400.

**43000 Advanced Animation and Game Development (2)**

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 43000.

**43001 Technology of Media and Film Production (2)**

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. Prerequisites: TECH 34001 and 34004.

**43002 Graphics Design Technology (3)**

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.

**43003 Virtual Reality and Game Design (2)**

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.

**43004 UNIX Scripting with Applications (2)**

A course in the use of UNIX scripting for animation and multimedia development. Prerequisites: COMT 21095 and TECH 43001.

**43026 Microprocessor Systems (4)**

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. Special fee: \$30 flat fee—subject to change.

**43050 Inventive Problem Solving (3)**

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.

**43060 Management of Technology Innovation (3)**

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. Special fee: \$80 flat fee—subject to change.

**43080 Industrial and Environmental Safety (3)**

Examines the Occupational Safety and Health Act and fundamentals of industrial safety programs. Prerequisite: none.

**43096 Individual Investigation in Applied Science and Technology (1-3)**

Work-study of an individual nature on a topic in a field of applied science and technology. IP grade permissible. Prerequisites: junior standing and special approval.

**43132 Manufacturing Engineering Project (2)**

Problem selected by students and instructors to develop students in desired specialty or strengthen students in lesser field or prepare students for specific employment. IP grade permissible. Prerequisite: special approval of instructor.

**43220 Electrical Machinery (3)**

Principles of operation and application of motors, generators, transformers and other magnetic devices; electrical power generation, distribution and use. Prerequisite: TECH 23224.

**43221 Digital Control Systems and Instrumentation (4)**

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 43026 and MATH 12003 and PHY 23102. Corequisite: TECH 33223. Special fee: \$20 flat fee—subject to change.

**43550 Computer-Aided Manufacturing (3)**

The application of computers to the preparation of machine tool control programs. Prerequisite: TECH 10001 and 20002. Special fee: \$60 flat fee—subject to change.

**43580 Computer-Aided Machine Design (3)**

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 33111 and 34002 and MATH 12002 and PHY 13001.

**43700 Computer Integrated Manufacturing (3)**

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. Special fee: \$60 flat fee—subject to change.

**43800 Applied Engineering Technology Seminar (2)**

An individual or group project involving the solution of a problem through the application of technology. Prerequisite: technology (TECH) major and senior standing. Special fee: \$40 flat fee—subject to change.

**45030 Aircraft Systems II (3)**

Application and performance of various electrical, mechanical, hydraulic and computer systems as

applied to aircraft. Prerequisites: TECH 35040. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**45092 Aeronautical Internship/Cooperative Education (1-2)**

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

**45096 Individual Investigation in Aeronautics (1-3)**

(Repeatable for a total of 6 credit hours) Work-study of an individual nature on a topic relating to professional aviation. IP grade permissible. Prerequisites: sophomore standing and special approval.

**45121 Advanced Aerospace Propulsion (3)**

A study of gas turbine and rocket engines as aerospace propulsion systems. Includes laboratory experience related to component function and system performance. Prerequisites: aerospace technology (AERN) major and TECH 35020.

**45130 Physiology and Human Factors of Flight (3)**

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

**45135 Aviation Safety Theory (3)**

Provides in-depth study into aviation human safety concerns and the basics of risk and safety management. Prerequisite: TECH 45130.

**45150 Applied Flight Dynamics I (3)**

An applied aircraft flight dynamics course that demonstrates aircraft, engine and propeller performance with the overall flight performance and stability of the typical light airplane. Includes flight testing laboratory participation. Prerequisites: MATH 11012 or 12002; and PHY 13001 and 13002 or PHY 23101 and 23102; and TECH 15000. Special fee: \$30 flat fee—subject to change.

**45151 Applied Flight Dynamics II (3)**

An applied flight dynamics course that demonstrates aircraft performance, dynamics, operating characteristics and propulsion of both light airplanes and high speed, high altitude aircraft. Includes flight testing laboratory participation. IP grades permissible. Prerequisites: TECH 35020 and 45150 and PHY 32562. Special fee: \$20 flat fee—subject to change.

**45250 Aviation Law and Safety (3)**

Study of federal, state and local laws that impact aviation. Defines major causes of aircraft accidents. Emphasis on safety and prevention of violations. Includes actual case studies.

Prerequisite: TECH 15000.

**45291 Aerospace Senior Seminar (1)**

Seminar on selected topics relating to problems, issues and conditions of employment within aviation. S/U grading only. Prerequisite: aeronautics (AERN) and senior standing. Special fee: \$25 flat fee—subject to change.

**45320 Air Traffic Control II (2)**

Advanced study of the concepts of air traffic control and airspace management in the National Airspace System (NASA), with an emphasis on tower and terminal operations. Prerequisite: TECH 35342. Corequisite: TECH 45321.

**45321 Air Traffic Control II Laboratory (1)**

Simulator-based laboratory that includes air traffic control experiences that integrate tower and terminal control procedures. Prerequisite: TECH 35342. Corequisite: TECH 45320. Special fee: \$450 flat fee—subject to change.

**45340 Aircraft Maintenance (3)**

Fundamentals of aircraft maintenance and resolving maintenance problems on the flight line. Prerequisites: aerospace (AERN) major and senior standing and special approval.

**45343 En Route Air Traffic Control II (2)**

Advanced course on en route air traffic operations with emphasis on current and emerging practices in the National Airspace System (NASA). Course explores emerging paradigms in the Next Generation (NextGen) Air Traffic System. Prerequisite: TECH 35342. Corequisite: TECH 45344.

**45344 En Route Air Traffic Control II Laboratory (1)**

Simulator-based advanced practical course on en route air traffic operations, with emphasis on current and emerging practices in the National Airspace System (NASA). Course explores emerging paradigms in the Next Generation (NextGen) air traffic system. Prerequisite: TECH 35342. Corequisite: TECH 46343.

**45349 Systems Maintenance and Reliability (5)**

Combines theories of systems and operations with practical experience to meet FAA standards for an airframe and powerplant license. 300 hours shop experience. Prerequisite: TECH 45340.

**45350 Avionics (3)**

A study of aviation electronic systems in flight vehicles that pertain to communication, navigation and air traffic control systems. Prerequisites: PHY 13001 and 13002 or 23101 and 23102; and TECH 15000 and 21021.



**45648 Theory of Flight Instruction (2)**

Detailed fundamentals of teaching flight and ground instruction and the analysis of flight techniques, to meet requirements of FAR's Part 61.185 (a). Prerequisites: TECH 35746 and 35747. Corequisite: TECH 45649.

**45649 Flight Instructor/Airplanes (2)**

Flight course with emphasis on instructing techniques in aircraft from right seat. Includes student evaluation techniques to meet FAR requirements for CFI. IP grade permissible. Prerequisites: TECH 35746 and 35747. Corequisite: TECH 45648. Special fee: \$5,800 flat fee, Fixed Wing—subject to change.

**45650 Certified Flight Instructor Helicopter Flight (2)**

Flight course designed to fulfill FAA requirements for the Flight Instructor Helicopter certificate. Prerequisites: 2.0 cumulative GPA; and TECH 35746 and 35749. Corequisite: TECH 45648.

**45651 Flight Instructor—Instruments (2)**

Flight course with emphasis on flight instructing techniques involved with instrument flight and ATC procedures. Student evaluations included. IP grade permissible. Prerequisites: TECH 45648 and 45649. Special fee: \$3,170 flat fee, Fixed Wing—subject to change.

**45652 Certified Flight Instructor Instrument Helicopter Flight (1)**

Flight course designed to fulfill FAA requirements for the Flight Instructor Instrument Helicopter certificate. Prerequisites: 2.0 cumulative GPA; and TECH 35646 or 35648; and TECH 45650 or 45659.

**45653 Multi-Engine Pilot Flight (1)**

The course provides the required ground and flight instruction necessary to qualify students for the multi-engine rating from the FAA. IP grade permissible. Prerequisite: TECH 35747. Special fee: \$4,200 flat fee—subject to change.

**45654 Certified Flight Instructor Helicopter Flight Add-On (1)**

Flight course designed to fulfill FAA requirements for the Flight Instructor Helicopter Add-on certificate. Prerequisites: 2.0 cumulative GPA and TECH 45649.

**45655 Advanced Multi-Engine Pilot Flight (1)**

Ground flight instruction for proficiency and required hours in preparation for multi-engine instruction. IP grade permissible. Prerequisite: TECH 45653. Special fee: \$2,850 flat fee—subject to change.

**45656 Certified Flight Instructor Instrument Helicopter Flight Add-On (1)**

Flight course designed to fulfill FAA requirements for the Flight Instructor Instrument Helicopter Add-on certificate. Prerequisites: 2.0 cumulative GPA and TECH 45651.

**45657 Multi-Engine Flight Instructor (1)**

This course provides the necessary ground and

flight instruction to professionally qualify students for the multi-engine instructor rating by the FAA. IP grade permissible. Prerequisites: TECH 45655 and 45649. Special fee: \$3,000 flat fee—subject to change.

**45659 Basic Aerobatic Flight (1)**

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 TECH 25645 and special approval. Special fee: \$728 flat fee—subject to change.

**45700 Aircraft Design (4)**

Preliminary design of a fixed-wing aircraft for a specific mission: weight estimates; wing planform, airfoil and propulsion selection; airframe configuration and layout design; performance analysis; and overall systems integration. Prerequisites: PHY 13001 and 13002 or 23101 and 23102; and TECH 15000 and 21021. Pre/corequisites: TECH 45030 and 45350 and 45150. Special fee: \$50 flat fee—subject to change.

**45710 Turbine Engine Theory and Operation (2)**

An in-depth study of the theory, operation and performance of turbine/turboprop engines and associated systems. Prerequisites: TECH 35020.

**45711 Turbine Engine Theory and Operation Laboratory (1)**

Laboratory using a turboprop flight simulator to provide instruction and demonstration of the operating characteristics and procedures associated with turbine/turboprop engines. Prerequisite: TECH 35020. Pre/corequisite: TECH 45710. Special fee: \$120 flat fee—subject to change.

**45720 Crew Resource Management (2)**

An in-depth study of the common principles of aviation Crew Resource Management (CRM) and human factors as utilized by air transport flight crews. IP grades permissible. Prerequisites: TECH 45130.

**45721 Crew Resource Management Laboratory (1)**

Flight simulator-based laboratory that includes flight simulator experiences that integrate CRM and LOFT in a multicrew environment. IP grade permissible. Prerequisites: TECH 45130. Prerequisite/corequisite: TECH 45720. Special fee: \$30 flat fee—subject to change.

**45730 Applied Transport Category Aircraft Systems (3)**

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. Prerequisites: TECH 35020 and 35040 and 45030.

**45740 Flight Management and Electronic Display Systems (3)**

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. Prerequisites: TECH 35040 and 45030 and 45350.

**45791 Aviation Security and Policy Seminar (3)**

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. Prerequisites: TECH 35340 and 35341 and 35342 and 45250. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**46020 Applications of Artificial Intelligence Products (3)**

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.

**46031 Student Teaching (9)**

Provides a 12-week student teaching experience in technology education program. All professional courses must be completed along with 75 percent of all technology courses and 100 hours of technology education program visits. S/U grading; IP grade. 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: special approval. Corequisite: TECH 49525.

**46170 Case Studies in Fraud Examination (3)**

Application of principles of fraud examination, detection and evaluation of recommended action plans to specific fraud cases. Prerequisites: TECH 36110 and 36318.

**46191 Seminar in Fraud Examination (3)**

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.

**46295 Special Topics in Applied Business (2-3)**

(Repeated registration permissible) Specialized advance instruction oriented primarily to applied business topics. Topics will vary and will be announced as scheduled. Prerequisite: special approval of full-time technology faculty or of professor teaching the course.

**46308 Developing Desktop Applications (3)**

Course focuses on designing and implementing desktop applications. Topics include use of component objects, online help, advanced debugging package deployment. Prerequisite: COMT 21005 or COMT faculty special approval.

**46309 Developing Distributed Applications (3)**

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: TECH 46308 or COMT special approval.

**46310 Technology of Operating Systems (3)**

Lab-oriented course covering installation, configuration, tuning and communication among state-of-the-art desktop operating systems, using available system tools, utilities and files. Prerequisites: ENG 20002 or ITAP 26638; and COMT 21002; or full-time COMT faculty special approval.

**46311 Technology of Networking (3)**

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: ENG 20002 or ITAP 26638; and COMT 21002; or full-time COMT faculty special approval.

**46321 Web Database Integration (3)**

Laboratory course focused on integrating databases in Web sites. Current topics include using object-oriented technology, structured query language and large-scale database engines. Prerequisites: COMT 21005 and 21036.

**46330 Visual Basic Programming in Engineering Technology (3)**

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. Prerequisites: TECH 10001 and MATH 11011 and PHY 13001 and special approval.

**46331 Local Area Network Security and Firewalls (3)**

This lecture/laboratory course will examine 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: TECH 36330.

**46340 Database Design and Implementation (3)**

Explores the role and design of databases in organizations, with emphasis on the technologies used in their implementation. Emphasis on SQL.

Prerequisites: COMT 21005 and 21010.

**46409 Strategic Management of Technology and Innovation (3)**

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.

**46410 Crisis and Disaster Management Planning (3)**

Addresses planning process for mitigation and recovery strategies for natural and man-made crises and disasters. Includes risk assessment, incident management and planning evaluation. Prerequisite: junior standing.

**46418 Labor Studies in Technology (3)**

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.

**46420 Legal Issues in Security (3)**

Survey of laws applicable to security risks including torts, labor, employment, criminal and constitutional issues. Prerequisite: junior standing.

**49525 Inquiry into Professional Practice (3)**

Seminar during student teaching to explore issues and techniques appropriate to teaching technology education. Corequisite: TECH 46031.

\*\* Course ineligible to be repeated for GPA recalculation.

\*\* Courses offered only at Regional Campuses.

**Theatre (THEA)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Theatre (THEA)

**11000 The Art of the Theatre (3)**

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. This course may be used to satisfy the Kent Core Requirements and diversity requirement.

**11303 The Art of Acting (3)**

General introduction to acting: the actor's instrument, sensory awareness, personal and group response, objectives and tactics. Basic scene work. Prerequisite: special approval.

**11522 Introductory Lighting (3)**

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 laboratory hours per week. Prerequisite: special approval.

**11524 Introductory Costuming (3)**

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 laboratory hours per week. Prerequisite: special approval. Special fee: \$20 flat fee—subject to change.

**11622 Introductory Scenery (3)**

Principles, theories and basic skills of scenic design and technology. Emphasis on design elements, process of applied construction skills. Two lecture hours plus two laboratory hours per week. Prerequisite: special approval. Special fee: \$20 flat fee—subject to change.

**21016 Makeup for Stage and Screen (3)**

Study of stage, TV and photographic makeup techniques and materials. Four lecture-demonstration-laboratory hours per week; special projects as assigned. Prerequisite: special approval. Special fee: \$45 flat fee—subject to change.

**21017 Oral Interpretation (2)**

Theory and practice in art of interpreting literature orally; selection of material, literary analysis and solo performance techniques. Three lecture-laboratory hours per week. Prerequisite: THEA 11340 and special approval.

**21095 Special Topics in Theatre (1-3)**

(Repeated registration permitted). Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled. Prerequisite: special approval.

**21111 Script Analysis (3)**

Principles, theories and techniques of play script analysis for the theatrical production. Prerequisite: THEA 11000.

**21201 Introduction to American Musical Theatre (3)**

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.

**21303 Acting Process (3)**

Fundamentals of naturalistic acting and interaction; development of spontaneity, believability and a sense of truth; game playing and basic stage technique. Prerequisites: THEA 11303 or 21306 and special approval.

**21306 Musical Theatre Performance I (3)\***

(Repeatable for up to 12 credit hours)  
Performance-oriented class that will focus on techniques and styles of performance in musical theatre and cabaret from Gilbert and Sullivan to present. Prerequisite: musical theatre (THMT) major and special approval. Special fee: \$75.00 flat fee—subject to change.

**21501 Sophomore Portfolio Review (1)**

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 B.F.A. design/technology program. S/U grading. Prerequisites: sophomore standing and BFA design/technology (THDT) major and at least two of the following: THEA 11522 and 11524 and 11622. Special fee: \$30.00 flat fee—subject to change.

**21521 Theatrical Drafting (3)**

Drafting techniques for all design/technology students. Includes plans, elevations, sections, detailed drawings, light plots. Prerequisite: THEA 11622 and special approval. Special fee: \$35 flat fee—subject to change.

**21621 Scene Painting (3)**

Techniques of scene painting; emphasis on a variety of techniques through practical projects. Prerequisite: THEA 11622 and special approval. Special fee: \$130 flat fee—subject to change.

**21700 Movement I (3)**

Beginning exploration of technical skills emphasizing the physical components of expressive action through integration of breath, text and body conditioning. Prerequisites: THEA 11303 and special approval.

**21800 Voice I (3)**

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. Prerequisites: THEA 11303 and special approval.

**21892 Entertainment Arts and Technology Internship I (5)\***

(Repeatable up to 10 credit hours) Intensive professional experience in aspects of entertainment arts and technologies. Prerequisite: sophomore standing and special approval.

**22092 Practicum I: Design/Tech (3)\***

(Repeatable for a total of 99 credit hours)  
Practical experience in theatre production under faculty supervision. S/U grading; IP grade permissible. Available for lower-division students only. Required of all theatre majors. Prerequisite: freshman or sophomore only and special approval.

**22192 Practicum I: Performance (3)\***

(Repeatable for a total of 99 credit hours)  
Practical experience in theatre performance

under faculty supervision. S/U grading; IP grade permissible. Available for lower-division students only. Required of all theatre majors. Prerequisite: freshman or sophomore only and special approval.

**22292 Practicum I: Theatre Management (3)\***

(Repeatable for a total of 12 credit hours)  
Practical experience in theatre management under faculty supervision. Prerequisite: freshman or sophomore only.

**31112 History of Theatre and Drama I (3)**

Theatre history and drama in Europe from antiquity through the Renaissance. Prerequisites: freshmen or sophomores only and special approval.

**31113 History of Theatre and Drama II (3)**

Theatre history and drama in Europe and the United States from 1660 to 1900. Prerequisite: THEA 31112 and special approval.

**31114 History of Theatre and Drama III (3)**

Theatre history and drama in Europe and the United States from 1900 to the present. Prerequisites: THEA 31112 and 31113 and special approval.

**31303 Character and Scene Study I (3)**

The development of character in the realistic scene. Prerequisites: THEA 21303 and special approval.

**31304 Character and Scene Study II (3)**

Further character and scene exploration; spontaneity and creative choice making. Prerequisites: THEA 31303 and special approval.

**31401 Directing (3)**

Theoretical and practical work in the process of play direction: the director's mission; play analysis and design collaboration; the rehearsal process. Prerequisites: THEA 11303 and 21111 and special approval.

**31501 Junior Portfolio Review (1)**

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 B.F.A. design/technology program. S/U grading. Prerequisites: junior standing and B.F.A. design/technology (THDT) major and special approval. Special fee: \$30.00 flat fee—subject to change.

**31522 Lighting Design (3)**

Exploration of the tools of the lighting designer applied to design choices; frequent paper design projects. Prerequisite: THEA 11522 and special approval. Special fee: \$30 flat fee—subject to change.

**31524 Costume Design (3)**

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. Special fee: \$90 flat fee—subject to change.

**31525 Costume Technology (3)**

Basic patterning and construction techniques used in theatrical costuming; emphasis on flat and draped patterning. Prerequisite: THEA 11524 and special approval. Special fee: \$45 flat fee—subject to change.

**31560 Scenic Technology (3)**

Basic history, theory and application of theatrical practice in scenery, properties and electrics. Three lecture hours per week and laboratory arranged. Prerequisites: THEA 11622 and 21521 and special approval. Special fee: \$60 flat fee—subject to change.

**31622 Scene Design (3)**

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. Special fee: \$50 flat fee—subject to change.

**31701 Movement II (3)**

Development of movement exploration and improvisation skills which focus on physical relationships in performance and utilize the components of energy and time. Prerequisites: THEA 11303 or 21306; and special approval.

**31801 Voice II (3)**

Continuation of Voice I. Explorations involve various texts and incorporation of voice principles at a more detailed level. Prerequisites: THEA 21301 and 21800 and special approval.

**41017 Reader's Theatre (2)**

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.

**41026 Playwriting (3)**

(Repeatable for a total of 6 credit hours)  
Principles underlying playwriting for the contemporary theatre; analysis of short play form. Prerequisite: special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41027 Advanced Playwriting (3)**

(Repeatable for a total of 6 credit hours)  
Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition. Prerequisite: THEA 41026 and special approval.

**41093 Variable Title Workshop in Theatre (1-6)**

S/U grading. Prerequisite: special approval.

**41095 Special Topics (1-3)**

(Repeated registration permissible) Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled. Prerequisite: special approval.

**41096 Independent Study in Theatre (1-3)**

(Repeatable for a total of 6 credit hours) Selected research topics in theatre; to be elected only after all coursework in study area completed. IP grade permissible. Prerequisite: special approval.

**41110 Theatre Criticism (3)**

Four productions in the region will be used as a means of studying aesthetic and socio/historical contexts involved in the theatre event. Developing writing skills through essays about the productions will be an important part of the course. Prerequisite: junior or senior standing and special approval. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**41113 Theatre in a Multicultural America (3)**

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. This course may be used to satisfy the diversity requirement.

**41114 Gay and Lesbian Theatre (3)**

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. This course may be used to satisfy the diversity requirement.

**41133 Theatre and Drama in America I (3)**

History of theatre and drama in America from the beginning to 1900. Prerequisites: THEA 31112 and 31113 and special approval of instructor required.

**41134 Theatre and Drama in America II (3)**

The history of theatre and drama in America from 1900 to the present. Prerequisites: THEA 31112 and 31113 and special approval of instructor.

**41140 American Musical Theatre History (3)**

Comprehensively examines the history of American musical theatre and incorporates the exploration of musical literature in production and performance. Prerequisite: junior standing; and theatre (THEA) major.

**41191 Variable Content Seminar: Theatre History / Literature / Theory (3)**

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. Special course fees may be charged.

**41303 Acting I Foundations/Stanislavski and Michael Chekhov (3)**

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. Prerequisites: THEA 31303.

**41304 Acting II-Scene Study-Modern American Realism (3)**

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.

**41305 Professional Aspects: Performance (3)**

A study of the practical demands and requirements of a professional acting career with particular emphasis on audition skills. Also covered: pictures and résumés, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects. Prerequisites: junior standing.

**41306 Professional Aspects: Design and Technology (3)**

A study of the practical demands and requirements of a professional career in design and technology, including portfolio development, résumés, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized. Prerequisite: junior standing. Special fee: \$24 flat fee—subject to change.

**41307 Musical Theatre Performance II (3)**

(Repeatable for a total of 6 credit hours) 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. Prerequisite: THEA 21306 and special approval. Special fee: \$75.00 flat fee—subject to change.

**41399 Senior Project (2)**

An individual or group performance project developed with the acting faculty. Prerequisites: THEA 41304 and special approval.

**41401 Advanced Directing (3)**

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 31401 and special approval.

**41501 Senior Portfolio Review (1)**

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 B.F.A. design/technology degree. S/U grading. Prerequisites: senior standing and B.F.A. design/technology (THDT) major and special approval. Special fee: \$30.00 flat fee—subject to change.

**41521 Advanced Lighting Technology (3)**

Advanced study of the technologies used in lighting designs; instrument design, optics, dimmer and control systems, projection techniques and special effects. Prerequisite: THEA 11522. Special fee: \$30 flat fee—subject to change.

**41522 Design Studio: Lighting (3)**

Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems. Prerequisite: THEA 31522 and special approval. Special fee: \$30 flat fee—subject to change.

**41523 Sound Design and Technology I (3)**

Sound design for the theatre, sound production, and sound reinforcement techniques. Introduction to electronic equipment: mixing consoles, amplifiers, speakers. Prerequisite: special approval.

**41524 Design Studio: Costume (3)**

Advanced study in costume design. Genres and 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. Special fee: \$45 flat fee—subject to change.

**41525 Props and Crafts (3)**

Examination of the processes related to the creation and procurement of scenic and costume props. Prerequisites: THEA 31525 and 31622. Special fee: \$110 flat fee—subject to change.

**41527 Sound Design and Technology II (3)**

Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored. Prerequisites: THEA 41523 and special approval.

**41528 Theatre Sound Reinforcement (3)**

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. Prerequisites: THEA 41523 and special approval.

### 41529 Advanced Wig and Makeup Techniques—Stage and Screen (3)

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. Special fee: \$80 flat fee—subject to change.

### 41530 Automated Stage Lighting Programming (3)

Studies in the application of automated lighting techniques to live performance emphasizing artistic style and concept through a range of programming problems. Prerequisite: junior standing and special approval.

### 41560 Theatre Fabrication Technology (3)

History of technical production practice, materials theory and application in scenic construction technology. Prerequisites: THEA 11622 and 21521 and special approval. Special fee: \$80 flat fee—subject to change.

### 41620 History of Period Styles for Theatre Designers (3)

A survey of visual styles as related to historical and contemporary culture from antiquity through the 20th century with an emphasis on its application to theatrical design. Prerequisite: one of THEA 31522 or 31524 or 31622.

### 41621 Presentation Media (3)

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 11524 and 11622 and 21521. Special fee: \$76 flat fee—subject to change.

### 41622 Design Studio: Scenery (3)

Advanced study in scenic design. Explores genres, styles and performance spaces, including practical considerations. Prerequisite: THEA 31622 and special approval. Special fee: \$50 flat fee—subject to change.

### 41623 Television Production: Lighting (3)

Studies in the process and application of designing lighting for studio and event-based television production. Prerequisites: THEA 11522 and special approval.

### 41701 Movement Form and Space I—The Actor's Physical Instrument (3)

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.

### 41726 Theatre Management (3)

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.

### 41736 Production and Stage Management (3)

Detailed investigation of the methodology used in stage managing a professional theatrical production including paperwork, rehearsals and calling a show. Prerequisite: special approval.

### 41801 Voice and Speech I—The Actor's Instrument (3)

The use of exercise and specific text work to explore "centering" as it relates 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. Prerequisites: THEA 31801 and special approval.

### 41808 Acting Styles I—Shakespeare (3)

The application of acting, movement, and voice and speech techniques to sonnets, monologues, soliloquies, and scenes from Shakespeare. Prerequisite: special approval.

### 41892 Entertainment Arts and Technology Internship II (5)

(Repeatable up to 10 credit hours) Intensive advanced professional experience in aspects of entertainment arts and technologies. Prerequisite: junior standing and special approval.

### 41992 Theatre Production Internship (1-6)

(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. S/U grading; IP grade permissible. Prerequisites: junior standing and special approval.

### 42092 Practicum II: Design/Tech (3)

(Repeatable for a total of 99 credit hours) Advanced practical experience in theatre production under faculty supervision. S/U grading; IP grade permissible. Available for upper-division students only. Required of all theatre majors. Prerequisite: junior or senior standing and special approval.

### 42192 Practicum II: Performance (3)

(Repeatable for a total of 99 credit hours) Advanced practical experience in theatre performance under faculty supervision. S/U grading; IP grade permissible. Available for upper-division students only. Required of all theatre majors. Prerequisite: junior or senior standing and special approval.

### 42292 Practicum II: Theatre Management (3)

(Repeatable for up to 12 credit hours) Advanced practical experience in theatre management under faculty/staff supervision. Available for upper-division students only. Prerequisite: special approval.

*\*Course ineligible to be repeated for GPA recalculation.*

## Translation Studies (TRST)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Translation Studies (TRST)

### 20009 Multilingual Information Lifecycle (3)

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 translation. Course is taught in English. Prerequisite: translation majors (FRTR, GRTR, RUTR, SPTR).

### 30230 Approaches to Translation (3)

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.

### 30330 Cross-Language Mediation (3)

An exploration of textual and contextual factors impacting cross-language mediation. Prerequisite: none.

### 38303 Medical Spanish Translation and Interpreting (3)

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.

## Undergraduate Studies (US)

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Undergraduate Studies (US)

### 10002 Adult Student Orientation (1)

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. S/U grading. Prerequisite: none.

### 10003 Reading Strategies for College Success (3)

Development of reading strategies necessary for successful completion of college coursework. Emphasis on improving reading comprehension. Hours do not count toward graduation. Prerequisite: Compass reading score of 0-55.



**10006 Study Strategies for College Success (3)**

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. Corequisite: PSYC 11762 or SOC 12050 or HIST 12070 or PHY 11030.

**10095 Special Topics in Undergraduate Studies (1-3)\***

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.

**10096 Individual Investigation (1-6)\***

(May be repeated for a total of 6 credit hours) Experiential learning opportunity, working with a faculty member in his or her area of expertise. Prerequisite: none.

**10097 Destination Kent State: First Year Experience (1)**

Assists students in making a successful 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.

**20095 Special Topics in Undergraduate Studies (1-3)\***

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.

**20193 Variable Title Workshop in Undergraduate Studies (1-3)\***

(Repeated registration permitted) Workshop focused on variable topics. Prerequisite: none.

**20201 Destination Kent State Student Leader Training (2)**

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 10097.

**20203 Theory and Practice of Peer Tutoring (1)**

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.

**30202 Destination Kent State Student Success Leader Seminar (2)**

This course is required of all student instructors who are paired with a faculty member in teaching Destination Kent: First Year Experience and who have taught Destination Kent: First Year Experience previously. Extended training & resource assistance. S/U grading. Prerequisite: US 20202.

**40201 Destination Kent State Student Leader Trainer (3)**

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. Prerequisite: US 20202.

**40202 Destination Kent State Intern Seminar 3)**

Experienced Student Success Leaders selected to be student interns are required to take this course. This course extends training and skill development for student who assume responsibility for assisting Student Success Leaders. Prerequisite: US 30202.

*\* Course ineligible to be repeated for GPA recalculation.*

**Veterinary Technology (VTEC)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Veterinary Technology (VTEC)

**Courses offered only at Regional Campuses.**

**10001 Introduction to Veterinary Technology (2)**

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 and basic animal behavior. Prerequisite: none.

**10002 Veterinary Nursing I (3)**

Introduction to animal nursing: record keeping, kennel sanitation, animal restraint, syringe and needle identification/handling, injection techniques, physical exams, grooming and administration of medications. Two-hour lecture and three-hour laboratory weekly. Prerequisite: veterinary technology (VTEC) major.

**10204 Clinical Laboratory I (3)**

Introduction to clinical laboratory: equipment, and equipment maintenance; internal and external parasites; urinalysis. Lecture 2 hours, laboratory 3 hours weekly. Two-hour lecture and three-hour laboratory weekly. Prerequisite: veterinary technology (VTEC) major.

**10205 Veterinary Nursing II (3)**

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. Prerequisites: minimum grade of C (2.0) in all prerequisites. BSCI 10100; and CHEM 10050; and VTEC 10002 and 10204. Pre- or Corequisite: VTEC 10001.

**10206 Pharmacology (2)**

Regulations controlling the use of drugs and biologicals, classifications and mechanisms of action of pharmaceuticals, dosage calculations, labeling, packaging and dispensing of veterinary products. Two-hour lecture weekly. Prerequisites: BSCI 10100 and 10110; and CHEM 10052 and 10053; and HED 14020; and VTEC 10001 and 10002 and 10204. Pre/corequisite: VTEC 10205.

**20008 Clinical Laboratory II (3)**

Continuation and application of laboratory skills from Clinical Laboratory I; hematology, serology, cytology and other laboratory skills. Lecture 2 hours, laboratory 3 hours weekly. Prerequisites: minimum grade of C (2.0) in all prerequisites. BSCI 10100; and CHEM 10050; and VTEC 10002 and 10204. Pre- or Corequisites: VTEC 10001 and 10205.

**20009 Veterinary Nursing III (3)**

Continuing nursing skills and techniques emphasizing large animal species: restraint, venipuncture, behavior, breeds, feedstuffs, food safety, medications, preventive care, surgical procedures and lameness. Two-hour lecture and three-hour laboratory weekly. Prerequisites: BSCI 10110 and CHEM 10052 and 10053; and VTEC 10001 and 10002 and 10204 and 10205 and 20008. Pre/corequisite: VTEC 10206.

**20010 Imaging Techniques (3)**

Principles and applications of the production of X-rays, processing, radiation safety, storage, patient positioning and other imaging techniques. Two-hour lecture and three-hour laboratory weekly. Prerequisites: BSCI 10100 and 10110; and CHEM 10052 and 10053; and VTEC 10001 and 10002 and 10204 and 10205 and 20008. Pre/corequisite: VTEC 10206.

**20212 Surgery and Anesthesia (3)**

Principles and applications of use of anesthetics, patient monitoring, dental prophylaxis, presurgery preparation, post-surgical patient care, sterilization, surgical preparation and assisting and equipment maintenance. Lecture 2 hours, laboratory 3 hours weekly. Prerequisites: Minimum grade of C (2.0) in all prerequisites. BSCI 10100 and 10110; CHEM 10052 and 10053; and VTEC 10001 and 10002 and 10204 and 10205 and 20008. Pre- or corequisite: VTEC 10206.

**20213 Nutrition and Disease (2)**

Principles of the disease process, disease control and prevention of common diseases of domestic animals. Nutrition principles, especially for clinical diseases, are covered. Prerequisites: BSCI 20021; VTEC 20009 and 20010 and 20212.

**20214 Veterinary Nursing and Hospital Procedures (3)**

Nursing procedures for laboratory and animal exotic procedures. Procedures by a veterinary technician in a hospital environment, including office and a computer application. One-hour lecture and six-hour laboratory weekly, including computer application. Prerequisites: BSCI 20021; and VTEC 20009 and 20010 and 20212.

**20392 Practicum in Veterinary Hospital (5)**

Students gain practical experience in a veterinary clinic or an approved clinical site to focus on mastering all clinical skills needed for this career. Prerequisites: BSCI 20021; and VTEC 20009 and 20010 and 20012. Corequisites: VTEC 20213 and 20214.

**Visual Communication Design (VCD)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Visual Communication Design (VCD)

**13000 Introduction to Visual Communication Design I (3)**

Introduction to the design and illustration program in visual communication design as well as the design profession. Focus on historical overview, industry standards, job opportunities, creative design process and skills needed to succeed. Prerequisites: photo illustration (PHOI) or visual communication design (VCD) major.

**13001 Introduction to Visual Communication Design II (3)**

Introduction to basic design processes using research, writing, conceptual problem-solving and format organization of two-dimensional space utilizing type and imagery. Prerequisites: VCD 13000. Special fee: \$15 flat fee—subject to change.

**14001 Visual Design Literacy (3)**

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.

**14002 Communicating with Color (3)**

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 difference. Prerequisite: none.

**17000 Color: Theory and and Application (3)**

Color and its interaction through a series of nonapplied (abstract) exercises. Prerequisite: none.

**20000 Basic Computer Graphic Design and Illustration (3)**

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: none.

**20001 Sophomore Entrance Examination/Portfolio Review-Photo Illustration (1)**

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. Prerequisites: VCD 28002 and photo illustration (PHOI) major. Corequisites: VCD 20010 and 38003.

**20003 Intermediate Computer Graphic Design and Illustration—Various Software Programs (3)**

A technical, studio course designed to teach the fundamentals of Web design in GoLive and Flash. Material is presented throughout a series of demos, exercises and projects. Prerequisites: VCD 20000. Special fee: \$36 flat fee—subject to change.

**20006 Kinetic and Sequential Graphic Design (3)**

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.

**20009 Sophomore Entrance Examination/Portfolio Review (1)**

Visual communication design faculty review a portfolio of work from prerequisite courses and administer diagnostic examinations of technical and drawing skills and formal organizational ability. S/U grading. Prerequisites: VCD 13000 and 13001 and 28000 and 28002 and 38003 (for PHOI majors); or VCD 13001 and 22000 and 22001 and 23001 and 23002 (for VCD majors); and photo illustration (PHOI) or visual

communication (VCD) major. Special fee: \$5 flat fee—subject to change.

**20010 Introduction to Design Research (3)**

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. Prerequisite: VCD 23001 and visual communication design (VCD) major.

**22000 Design/Illustration Techniques I (3)**

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. Prerequisites: VCD 13001.

**22001 Design/Illustration Techniques II (3)**

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. Prerequisites: VCD 22000.

**23000 Intermediate Studio Skills: Graphic Design and Illustration (3)**

A technical lecture course designed to outline the process and describe and discuss the technologies and vocabulary used in the printing industry. Prerequisites: VCD 23001. Special fee: \$33 flat fee—subject to change.

**23001 Introduction to Typography (3)**

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: minimum B (3.0) grade in VCD 13000 and 13001. Special fee: \$12 flat fee—subject to change.

**23002 Introduction to 3D Graphic Design (3)**

Continuation of Introduction to Graphic Design and Introduction to Typography with application of typography and imagery to 3-D form. Prerequisites: VCD 13001 and 23001.

**24001 Product Design (3)**

Research and design of singular self-contained objects. Utilization of industrial materials and fabricating techniques emphasizing aesthetics. Prerequisites: VCD 24000. Special fee: \$10 flat fee—subject to change.

**24009 Sophomore Portfolio Review (1)**

Preparation and review of a portfolio of work under supervision of industrial design faculty, to be judged at end of term. See Requirement 1 under Bachelor of Science in Industrial Design. Prerequisites: VCD 24000.

**27000 Interiors Rendering (3)**

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. Prerequisites: TECH 11083. Special fee: \$12 flat fee—subject to change.

**27001 Visual Design for Media: Basic (1)**

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.

**28000 Photography (3)**

Basic camera techniques to provide a better understanding of photography as a creative skill in visual communication. Prerequisites: VCD 13000 and 13001. Special fee: \$65 flat fee—subject to change.

**28002 Photography II (3)**

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. Special fee: \$125 flat fee—subject to change.

**30008 Junior Portfolio Review-Photo Illustration (1)**

Required portfolio in conference, with the School of Visual Communication Design Faculty, of work completed in VCD 38001 and 38004. Students successfully passing review may continue in the B.S. degree program in Photo Illustration. Students not receiving a passing grade may not continue in the program. S/U graded. Prerequisites: VCD 38004 and photo illustration (PHOI) major. Corequisite: VCD 38001.

**30009 Junior Portfolio Review: Graphic Design/Illustration (1)**

Required portfolio review in conference with the 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. degree 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. S/U graded. Prerequisites: VCD 32000 and 33000; and visual communication design (VCD) major. Corequisites: VCD 32001 and 33001.

**32000 Illustration I (3)**

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. Prerequisites: VCD 20009.

**32001 Illustration II (3)**

Illustration as communication: conceptual problem-solving visualizations of ideas utilizing felt tip markers as the medium of expression. Prerequisites: VCD 32000.

**33000 Graphic Design I (3)**

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. Prerequisites: VCD 20009. Special fee: \$36 flat fee—subject to change.

**33001 Graphic Design II (3)**

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 33000. Special fee: \$36 flat fee—subject to change.

**37000 Visual Design for Media: Advanced (3)**

A laboratory 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. Special fee: \$30 flat fee—subject to change.

**38001 Photographics (3)**

Exploration of 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 20009 and 28000 and 38004. Special fee: \$45 flat fee—subject to change.

**38003 Photo Technology (3)**

(Cross-listed with JMC 32003) A professional course serving visual communication design students within photo-illustration major. 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 28000 and photo illustration (PHOI) or visual communication design (VCD) major. Special fee: \$90 flat fee—subject to change.

**38004 Advanced Photography (3)**

(Cross-listed with JMC 32004) Use of specialized equipment, materials and techniques. Development of conceptual abilities and problem-solving skills. Special equipment furnished. Prerequisites: VCD 13001 and 28000. Special fee: \$90 flat fee—subject to change.

**38008 Photo-Design Techniques (3)**

(Cross-listed with JMC 32008) Use of unusual photographic materials and techniques in design of images for many purposes. Prerequisites: VCD 13001 and 28000. Special fee: \$45 flat fee—subject to change.

**38009 Internship Seminar-Photo Illustration (1)**

Under the supervision of faculty, students 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. Prerequisites: VCD 38004 and photo illustration (PHOI) major. Corequisite: VCD 38001.

**40025 Professional Portfolio: Graphic Design/Illustration (1-2)**

(Repeatable with permission) 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. IP grade permissible. Prerequisites: photo illustration (PHOI) or visual communication design (VCD) major. Special fee: \$9/credit hour—subject to change.

**40052 Graphic Design—Travel and Field Experience (1-16)**

Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience. S/U grading; IP grade permissible. Prerequisite: none.

**40053 Graphic Design Studio—Glyphix (1-8)**

(Repeatable for a total of 24 credit hours) 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. May carry an IP grade when appropriate. Prerequisite: none. Special fee: \$10/credit hour—subject to change.

**40092 Internship 1—Graphic Design/Illustration (1)**

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. S/U grading; IP grade permissible. Prerequisite: none.

**40095 Special Topics: Graphic Design/Illustration (1-4)**

(Repeatable for a total of 16 credit hours) 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. S/U grading; IP grade permissible. Prerequisite: VCD 30009. Special fee: \$7/credit hour—subject to change.

**40096 Individual Investigation in Graphic Design and Illustration (1-8)**

(Repeatable for a total of 16 credit hours) Individual study related to topics of graphic design and illustration approved by and under the direction of a faculty member. IP grade permissible. Prerequisite: none.

**40192 Internship 2—Graphic Design/Illustration (1-6)**

3 credit hours required; maximum of 6 credit hours allowable in B.F.A. 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. S/U grading; IP grade permissible. Prerequisites: VCD 40092.

**40193 Variable Title Workshop in VCD (1-3)**

Workshop setting dealing with intensive examination of special topics in VCD. May be repeated. Prerequisite: none.

**40195 Selected Topics: Graphic Design/Illustration (1-4)**

(Repeated registration permissible) Variable topics related to GD&I. Prerequisite: none.

**42000 Advanced Illustration: Media (3)**

Discussions and practice of media and grounds as they pertain to the illustration field. Discussion will also center around the problems in developing work for reproduction. Prerequisites: VCD 30009.

**42002 Editorial Illustration (3)**

Exploration and discussion of various illustration techniques and their application in the publishing field. Emphasis is placed on client needs, concept and intended audience. Prerequisites: VCD 30009.

**42003 Advertising Illustration (3)**

Exploration and discussion of various illustration techniques and their application in advertising. Emphasis is placed on client need, concept of solution and intended audience. Prerequisites: grade of B (3.0) or better in VCD 30009.

**42004 Computer Illustration (3)**

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. Prerequisites: VCD 20000.

**42051 Calligraphy and Layout (3)**

Development of creative techniques and technical proficiency in calligraphy as applied to illustration and graphic design. Prerequisites: VCD 30009.

**43000 Studio Production (3)**

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. Prerequisites: grade of B (3.0) or better in VCD 30009. Special fee: \$10 flat fee—subject to change.

**43001 Advanced Kinetic and Sequential Graphic Design (3)**

The exploration of the use of the computer in kinetic and sequential graphic design. 3-D modeling, and sound. Prerequisites: VCD 20006 and visual communication design (VCD) major. Special fee: \$30 flat fee—subject to change.

**43002 Typographic/Photographic Graphic Design (3)**

The use of typography (rather than visual imagery) as the primary design form in solving graphic design communication problems. Prerequisites: VCD 30009. Special fee: \$36 flat fee—subject to change.

**43003 Corporate Identity/Graphic Design (3)**

Use of graphic design forms (typography, photography and illustration) in the development of corporate identification for total advertising programs. Prerequisites: VCD 30009. Special fee: \$33 flat fee—subject to change.

**43004 Issues for Graphic Design Businesses (3)**

Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry. Prerequisites: VCD 30009. Special fee: \$10 flat fee—subject to change.

**43005 3-D Graphic Design-Direct Mail/Packaging/Point Purchase (3)**

Use of typography, visual images, photography and illustrations in the structure of information for communication on 3-D surfaces (direct mail, packaging and point-of-purchase display). Prerequisites: VCD 30009. Special fee: \$30 flat fee—subject to change.

**43006 Environmental Graphic Design (3)**

Aims at coordinating architectural planning, interior design, systems analysis and graphic communications. Prerequisite: none. Special fee: \$10 flat fee—subject to change.

**43007 Information Graphics (3)**

(Cross-listed with JMC 46001) Introduction to shapes, color, type and combinations of these for

computer-designed news graphics; maps, charts, graphs and diagrams. Prerequisites: JMC 20004 and 20007; and VCD 13001 or 27001. Special fee: \$30 flat fee—subject to change.

**43051 Experimental Typography (1-3)**

(Repeatable for a total of 12 credit hours) Investigation of form, pattern and texture in typographic usage. Emphasis on linking traditional letterform technology and computer-generated forms. May carry an IP grade when necessary. Prerequisites: grade of B (3.0) or better in VCD 30009. Special fee: \$12/credit hour—subject to change.

**44001 Packaging and Exhibition Design (3)**

Study and design of containers, packaging systems and exhibits in relation to particular function, including merchandising, learning and recreation. Prerequisite: none. Special fee: \$12 flat fee—subject to change.

**45000 Graphic Design Perspectives (3)**

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) major and junior standing. This course may be used to satisfy the writing-intensive requirement with approval of major department.

**46000 Web Design and Programming I (3)**

(Cross-listed with CS 47105) Course focus is on Web concepts and high quality Web design; CS and VCD principles, tools, architecture, presentation, design and creation of Web sites through teamwork. Course is jointly taught by CS and VCD. IP grade permissible. Prerequisites: CS 10051 and VCD 13001. Special fee: \$20 flat fee—subject to change.

**46001 Web Design and Programming II (3)**

(Cross-listed with CS 47106) 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 Web sites by teamwork. IP grade permissible. Prerequisites: VCD 46000. Special fee: \$20 flat fee—subject to change.

**46003 Digital Typography (2)**

Applying typographic rules in digital environments. Organizing large amounts of text in complex architectures and designing viewer controlled space. Exploration of dynamic information, sound and motion sequences. Prerequisites: VCD 23001 or 27001 or 37001.

### **46053 Web Design and Programming Studio (3)**

(Cross-listed with CS 47107) A joint computer science and visual communication design project course exploring advanced aspects of Web design and programming. Student may pursue individually defined projects or team projects for real clients. Limited enrollment. Prerequisites: VCD 46001.

### **48005 Color Photography (3)**

(Cross-listed with JMC 42005) The discipline of color photography is explored through a range of lectures, assignments and critiques. Prerequisites: VCD 38003 and 38004. Special fee: \$110 flat fee—subject to change.

### **48007 Photo Illustration Techniques (3)**

(Cross-listed with JMC 42007) Creative photography for advertising and editorial uses. Art director/photographer relationship stressed in given assignments. Critique by professionals in addition to academic evaluation. Prerequisites: VCD 38003 and 38004 and 48005; and photo illustration (PHOI) or visual communication design (VCD) major. Special fee: \$90 flat fee—subject to change.

### **48009 Fashion Photography (3)**

(Cross-listed with JMC 42009) Instruction in studio lighting, filters and special effects. Emphasis on editorial and advertising fashion photography. Studio and location assignments. Prerequisites: VCD 38003 and 38004 and 48005; and photo illustration (PHOI) or visual communication design (VCD) major. Special fee: \$45 flat fee—subject to change.

### **48092 Practicum in Photography (1-3)**

(Repeatable for a total of 10 hours. Cross-listed with JMC 42092) Individual or group investigation into student-selected areas of photographic field. Prerequisite: junior or senior standing; and photo illustration (PHOI) or visual communication design (VCD) major. Special fee: \$15/credit hour—subject to change.

### **49098 Senior Research Proposal: Graphic Design and Illustration (1)**

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. S/U grading;

IP grade permissible. Prerequisite: senior standing and visual communication design (VCD)

### **49199 Senior Project: Graphic Design/ Illustration (3)**

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. IP grade permissible. Prerequisite: photo illustration (PHOI) or visual communication design (VCD) major; and senior standing . Special fee: \$21 flat fee—subject to change.

## **Women's Studies (WMST)**

[University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Women's Studies (WMST)

### **20095 Special Topics in Women's Studies (1-5)\***

(Repeated registration permissible when topic varies) 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. Prerequisite: none.

### **20193 Variable Title Workshop in Women's Studies (1-6)\***

(Repeated registration permissible) Workshop focused on a specific topic within women's studies. S/U grading. Prerequisite: none. 30000 Colloquium in Women's Studies (3) 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. This course may be used to satisfy the diversity requirement.

### **30001 Feminist Theory (3)**

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: none.

### **30095 Special Topics in Women's Studies II (1-5)**

(Repeated registration permissible when topic varies) 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. Prerequisite: none.

### **30100 History of Women in the United States (3)**

(Cross-listed with HIST 31075) 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 from 1607 to the present in what is now the United States. Prerequisite: none.

### **30196 Women Studies Individual Investigation (1-3)**

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.

### **40095 Special Topics in Women's Studies III (1-5)**

(Repeated registration permissible when topic varies) Informed study of critical issues in women's studies from an international or global perspective. Prerequisite: WMST 30000 or 30001.

### **40193 Variable Title Workshop in Women's Studies (1-6)**

(Repeated registration permissible) Workshop focused on a specific topic within women's studies. S/U grading. Prerequisite: none.

### **40992 Practicum in Women's Studies (3)**

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: special approval.

\*Course ineligible to be repeated for GPA recalculation.