

Kent State University

# Graduate Course Descriptions

Spring 2011

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## **Graduate Accounting (ACCT)**

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*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **53013 Advanced Management Accounting (3)**

Advanced techniques and issues in costing and accounting measurement for management planning, decision-making and control. Professional accounting research and teamwork skills emphasized. This course may be offered jointly with ACCT 43013. Students enrolled in ACCT 53013 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43013. Prerequisites: ACCT 33010 and 33012.

### **53014 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 emphasized. This course may be offered jointly with ACCT 43014. Students enrolled in ACCT 53014 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43014. Prerequisite: ACCT 33004.

### **53020 Corporate Accounting III (3)**

Business combinations; consolidated financial statements; specialized disclosures; foreign currency impacts; intercorporate investments. Professional accounting research and interpersonal skills emphasized. This course may be offered jointly

with ACCT 43020. Students enrolled in ACCT 53020 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43020. Prerequisites: ACCT 33012 and ACCT 43031.

### **53033 Income Taxation 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. This course may be offered jointly with ACCT 43033. Students enrolled in ACCT 53033 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43033. Prerequisite: ACCT 43031.

### **53034 Nonprofit Accounting Auditing (3)**

Unique nonprofit, financial reporting, managerial accounting, and financial and operating audits for government and non-profit entities. Professional accounting research, written communication, and ethical decision making emphasized. This course may be offered jointly with ACCT 43034. Students enrolled in ACCT 53034 will be required to complete additional coursework and perform at higher levels than expected of students enrolled in ACCT 43034. Prerequisite: ACCT 33012.

### **53095 Special Topics Accounting (1-3)**

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

## **Graduate Adolescent/Adult Education (ADED)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Adolescent/Adult Education (ADED)

*The minimum prerequisite for 50000-69999 level courses is*

*graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **52267 Improving Mathematics Instruction for ADED (3)**

Methodology and materials for effective teaching of secondary school mathematics.

## **Graduate Anthropology (ANTH)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Anthropology (ANTH)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites requirements may apply and are listed in this catalog.*

### **58093 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.

### **58095 Special Topics in Anthropology (3)**

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

### **58210 Culture and Communication (3)**

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

### **58212 Kinship and Social Organization (3)**

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

**58214 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.

**58220 Cultural Ecology (3)**

Analysis of relationships between sociocultural systems and physical/biological environment.

**58225 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.

**58230 Sociocultural Change (3)**

Analysis of institutional changes where peoples of different cultures are in sustained contact.

**58240 The Symbolic Imperative (3)**

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

**58250 Culture and Curing (3)**

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

**58260 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.

**58270 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.

**58291 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.

**58391 Seminar in History of Anthropology 1750-1950 (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.

**58410 Stone Age Archaeology (3)**

Survey of Old World cultural history using archaeological data. Stresses the period from 3 million years ago to 10,000 years ago.

**58420 Archaeology of North America (3)**

Survey of major North American and Mexican archaeological sequences with emphasis on interregional relationships.

**58425 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.

**58440 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.

**58450 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.

**58692 Field Work in Biological Anthropology (3)**

Can be applied to any bio-anthropology field of study and off-campus activity, ranging from museum work to U.S. and international research projects.

**58810 Human Paleontology (3)**

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

**58820 Human Musculoskeletal 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.

**58830 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.

**58835 Primate Ecology and Conservation (3)**

Study of the geographic distribution and evolutionary ecology of prosimians, monkeys and apes, and human and climatic effects on their long-term survival.

**58840 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.

**68091 Research Seminar in Anthropological Theory (3)**

An opportunity for advanced students to follow up personal theoretical interests based upon a previously established foundation in theory.

**68093 Variable Title workshop in Anthropology (1-6)**

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

**68095 Special Topics in Anthropology (3)**

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

**68096 Individual Investigation (1-3)**

Readings and/or research supervised by member of graduate faculty. IP permissible. Petition form available in the anthropology department office. Prerequisite: special approval.

**68098 Research (15)**

Research or individual investigation. Repeat registration permitted. IP permissible. Petition form available in the anthropology department office. Prerequisite: special approval.

**68199 Thesis I (2-6)**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, or distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

**68230 Problems in Cultural Anthropology (3)**

Basic graduate course in cultural anthropology required of all M.A. candidates. Course deals with major topics within this subdiscipline of anthropology. Prerequisite: special approval.

**68240 Ethnic Group Analysis: East Asia (3)**

Critical analysis of key aspects in traditional East Asian sociocultural systems that can be related to modern development. Prerequisite: special approval.

**68241 Ethnic Group Analysis: Pacific Islands (3)**

Peoples and characteristics of culture areas of the Pacific Islands, including Polynesia, Melanesia and Micronesia, with analysis of several representative cultures from these areas. Prerequisite: special approval.

**68242 Ethnic Group Analysis: North America (3)**

Cross-cultural analysis of native cultures and societies of North America. Prerequisite: special approval.

**68299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ANTH 68199.

**68430 Problems in World Prehistory (3)**

Basic graduate course in prehistoric archaeology required of all M.A. candidates.

**68612 Primate Anatomy (5)**

Lecture and laboratory dissection of primate cadaver from major taxonomic groups of the order primates. Emphasis on musculoskeletal and nervous systems. Prerequisite: special approval.

**68613 Morphological Analysis (3)**

Application of current taxonomic and genetic theory to the analysis of mammalian structure, with special emphasis on the primate fossil record. Prerequisite: special approval.

**68621 Paleodemography and Osteology (3)**

An examination of the methods and theory of the use of prehistoric human remains in the reconstruction of extinct populations. Prerequisite: special approval.

**68622 Human Population Structure and Biological Demography (3)**

An intensive investigation of the principles of biological demography; includes emphasis on theories of selection and mating structure. Prerequisite: special

approval.

**68623 Human Variation (3)**

A detailed anthropological examination of the causes and extent of modern human variability. Prerequisite: special approval.

**68624 Primate Ethology (3)**

Detailed examination of the principles of primate ethology, including evolutionary trends in ecology, dominance, locomotion and social behavior. Prerequisite: special approval.

**68625 Dental Anthropology (3)**

Study of the human and primate dentition as it relates to primate and human evolution. Includes general orofacial biology. Prerequisite: special approval.

**68626 Primate Paleontology (3)**

Survey of primate evolution and taxonomy up to the emergence of modern hominids. Prerequisite: special approval.

**68630 Principles of Biological Anthropology (3)**

A graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern primates, early man.

**68637 Bioanthropological Data Analysis I (5)**

(Cross-listed with BMS 78673) Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.

**68638 Bioanthropological Data Analysis II (3)**

(Cross-listed with BMS 78638) This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple-sample problems and regression methods. It also includes computer application. Prerequisite: ANTH 68637.

## Graduate Architecture (ARCH)

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50001 Sustainable Design (1)**  
Writing intensive and research component addressing precedents, traditions, current directions in conservation of natural environment. Principles and methods of ecological design in architecture and urban design.

**50002 Systems Design (1)**  
Lecture and research component addressing comprehensive integration of mechanical, electrical, communication, structural- and life-safety systems and sustainable design concerns.

**50093 Variable Title Workshop in Architecture (1-6)**

**50101 Fourth Year Design Studio I (5)**  
Studio investigation of complex formal and spatial constructs addressing comprehensive concerns of architecture. Special emphasis on understanding conservation of the natural environment. CAD is required. Prerequisite: ARCH 30102 or ARCH 30112. Corequisite: ARCH 50001.

**50102 Fourth Year Design Studio II (5)**  
Studio investigation of the comprehensive concerns and understanding of building systems integration. CAD is required. Corequisite: ARCH 50002.

**50302 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.

**50402 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.

**50502 Environmental Technology II (3)**  
Ecological design of large buildings. Investigation and analysis of lighting, thermal, water, electrical and waste systems in urban settings.

**55001 Professional Practice: Real Estate and Development (3)**  
Introduction to the economic, social, ethical and legal impact on/of development in both the public and private sectors. Computer applications and case-study analysis is required.

**55002 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 care in the profession. Planning law surveys land use control mechanisms as seen through zoning, variances and practical applications.

**55003 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.

**55004 Professional Practice: Office and Financial Management (3)**  
This course examines various architectural office structures and management approaches, laws

pertaining to professional registration and practice, the use of consulting engineers and financial management of the architect's office in the context of the profession as a business.

**55093 Workshop: Professional Practice (1-3)**  
Variable topic workshop related to architectural professional practice. Repeatable for a total of 3 credit hours. S/U grading.

**55101 Fifth Year Design Studio I (6)**  
This studio intends to investigate a new scale of environmental issues that 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.

**55102 Fifth Year Design Studio II (3-6)**  
Advanced design studio emphasizing comprehensive and independent investigation — exploring and manifesting ideas through architecture using competition and hypothetical or real projects as vehicles of expression.

**55210 Renaissance Architecture (3)**  
History and theory of Renaissance architecture from 1400 until 1600.

**55211 Baroque Architecture (3)**  
History and theory of architecture in Europe from 1600 through 1750.

**55220 American Architecture: Colonial to 1900 (3)**  
History of American architecture from Spanish, French, Dutch and English colonization through the 19th century.

**55230 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 55202.



**55291 Seminar: Variable Topics in Architectural History (1-3)**

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

**55391 Seminar Structure III (1-3)**

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. Repeatable for a total of 3 credit hours.

**55491 Seminar: Methods and Materials III (1-3)**

Advanced topics in methods and complex materials systems. Computer modeling and field experience is required. Repeatable for a total of 3 credit hours.

**55591 Seminar: Environmental Technology III (1-3)**

Variable topics in environmental technology, environmental design and energy conservation, advanced lighting techniques, etc. Repeatable for a total of 3 credit hours.

**55601 Advanced Computer Applications (1-3)**

This course discusses advanced visualization techniques such as raytracing, radiosity and animation, and presents a variety of presentation issues and options. Repeatable for a total of 3 credit hours.

**55610 Reconstructing Architecture (3)**

The representation of race, gender and nationalistic ideologies within architectural practice and form.

**55611 Design Theory and Criticism: 20th Century (1-3)**

Design theory and criticism of architecture in the 20th century. Repeatable for a total of 3 credit hours.

**55620 Introduction to Preservation (1-3)**

An overview of preservation including building analysis conservation, adaptive reuse,

economic benefits of preservation planning as a revitalizing strategy. Prerequisite: special approval of the instructor.

**55621 Current Issues in Historic Preservation (1-3)**

Course in which practicing professionals, including architects, planners, developers and government officials, present preservation-related work. Repeatable for a total of 3 credit hours. Prerequisite: special approval.

**55630 Introduction to Landscape Architecture (1-3)**

Introduction to landscape design with emphasis upon the relationship between landscape and buildings. Repeatable for a maximum 3 credit hours.

**55631 Site Analysis and Design (1-3)**

Analysis of environmental factors as a basis for site selection and site planning. Repeatable for a total of 3 credit hours.

**55640 Developing Environments for Older Adults (1-3)**

Research of existing built environments and an investigation of the planning design process for the elderly. Repeatable for a total of 3 credit hours.

**55701 Urban Design Studio I (3-6)**

Introduction to urban design and its relationship to other design disciplines through analysis of neighborhoods and definition of comprehensive area improvement programs. Repeatable for a total of 6 credit hours. Prerequisite: special approval.

**55702 Urban Design Studio II (3-6)**

Urban design exploration of the formal relationships between buildings, open spaces and streets in the development of high density, mixed-use projects. Repeatable for a total of 6 credit hours. Prerequisite: special approval.

**55706 Socio-Political Representation in Urban Design (1-3)**

This course explores representation of socio-political ideas/ ideology through architectural and urban design. Repeatable for a total of 3 credit hours. Prerequisite: special approval.

**55707 Representation in Design (1-3)**

Course on the nature of communication in design and the representational tools the designer uses to give form to abstract ideas and converse with clients and colleagues. Repeatable for a total of 3 credit hours.

**55793 Workshop in Urban Design and Planning (1-3)**

This course provides an introduction to the scope of planning and design in the making of quality urban neighborhoods with particular emphasis on the role of urban design, architecture and landscape design. Repeatable for a total of 3 credit hours. S/U grading.

**55813 Professional Practice (3)**

Study of the practice of architecture, including professional office organizations, marketing of services, law, contracts, project management and construction contract administration. Prerequisite: special approval.

**55913 Land Use Control Law (3)**

Seminar discussing land use control policies, systems, programs and laws including private controls, constitutional considerations and environmental issues. Prerequisite: special approval.

**56991 Seminar: Variable Topics (1-3)**

Variable topic seminar. Repeatable for a maximum 3 credit hours. Prerequisite: special approval.

**56992 Field Study (1-3)**

Field experience. Repeatable for a maximum 3 credit hours. Prerequisite: special approval.

**56993 Workshop: Variable Topic (1-3)**

Field experience. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**56995 Special Topics (1-3)**

Special topics in architecture. Repeat registration permitted. Prerequisite: special approval.

**60101 Graduate Design Studio I (3-6)**

Architectural studies related to buildings. Emphasis on spatial, aesthetic, environmental and functional factors in design. Repeatable for a total of 6 credit hours. Special fee: \$15 per semester.

**60102 Graduate Design Studio II (3-6)**

Research studio aimed at exploring advanced design strategies and techniques. Prerequisites: ARCH 60101 and 60301.

**60103 Graduate Design Studio III (6-9)**

Capstone-studio (or "Master Project") aimed at further investigating building design issues both at a greater depth of complexity and by focusing on particular design aspects or areas of concentration. Prerequisite: ARCH 60102 and 60150 and 60922.

**60150 Project Programming (2-3)**

Study and discussion of the notion of Program in architecture and the principles of project Programming. Case-study analysis and preparation of a comprehensive program for an architectural project. IP permissible. Pre-requisite: ARCH 60101 and 60301.

**60201 History and Theory of Preservation (3-4)**

A study of the history and theory of preservation as practiced in the United States compared with international standards and practices.

**60202 Building Diagnostic Applications (3-4)**

Nondestructive evaluation of damage and its causes. The diagnostic tools will permit to verify the hypothesis of the damage, supporting qualitative and quantitative data. Analytical criteria illustrated through case studies.

**60203 Historic Building Materials Conservation (3-4)**

A study of historic building materials with an emphasis on causes of degradation, strategies for conservation and standards for restoration.

**60204 Exploring Historic Structures (1-3)**

A study of historic structures by means of thorough documentation. Historic American Building Survey through measured drawings, field notes and documentary photography. Rectified photography, triangulation and archival preparation.

**60205 Preservation Legislation and Policies (1-3)**

A study of the legal controls and financial incentives in historic preservation: Certified Local Government status, tax credits, conservation easements, Section 106, and the Secretary of the Interior Standards for the Treatment of Historic Properties.

**60301 Theories of Architecture (1-3)**

In-depth analysis and discussion of contemporary architectural theories. Critical evaluation of major authors and architectural projects. Repeatable for a total of 3 credit hours.

**60922 Methods of Inquiry in Architectural Studies (2)**

Provides a comprehensive coverage of architectural inquiry techniques including qualitative and quantitative research methods and critical thinking skills to help students better conduct and understand research. Prerequisite: ARCH 60101, ARCH 60301, and special approval.

**65001 Professional Practice: Real Estate and Development (2-4)**

Introduction to the economic, social, ethical and legal impact on/of development projects in both public and private sectors. Computer applications and case-study analysis are required. Prerequisite: ARCH 65001.

**65002 Professional Practice: Contract and Planning Law (2)**

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

**65003 Professional Practice: Leadership, Ethics and Office Management (3)**

The course discusses issues of professional leadership and examines architectural office structures. Management approaches, professional registration and practice, use of consulting engineers, and financial management of an office in the context of the profession as business.

**65703 Analysis of Urban Form (1-3)**

Seminar on the relationship between design ideologies/ theories and the realities of existing spatial relationships. Prerequisite: special approval.

**65704 Theories of Urbanism (1-3)**

In-depth analysis and discussion of ideologies and theories on urbanism from Modernism until present time. Critical evaluation of major authors and urban projects. Repeatable for a total of 3 credit hours.

**66100 Capstone Preparation (1-3)**

Capstone project preparation. Repeatable for a total 3 credit hours. IP permissible. Prerequisite: special approval.

**66199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours. S/U grading; IP permissible.

**66299 Thesis II (2)**

Following completion of 6 credit hours of Thesis I, all graduate students must continuously register for Thesis II for all subsequent academic terms (including summer) until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ARCH 66199— 6 credit hours.

**66892 Practicum (1-3)**

Variable topic practicum. Repeat registration permitted. Prerequisite: special approval.

**66991 Seminar: Variable Topic (1-4)**

Seminar on a variable topic. Repeat registration permitted.

**66992 Field Study (1-3)**

Field study in architecture. Repeat registration permitted. IP permissible.

**66993 Workshop: Variable Topic (1-3)**

Variable topic workshop. Repeat registration permitted. S/U grading.

**66995 Special Topics (1-4)**

Special topics in architecture. Repeat registration permitted.

**66996 Individual Investigation (1-3)**

Individual investigation in architecture. Repeat registration permitted. IP permissible. Prerequisite: Faculty written approval is required prior to registration.

**66998 Research (2-6)**

Research in architecture. Repeat registration permitted. Prerequisite: Faculty written approval is required prior to registration.

**67510 Sustainable Building Construction I (3)**

First course of a two-course sequence. Provides an in-depth

survey of design, pre- and post-construction activities pertinent to Green Building and Sustainable Design of the Built Environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on construction site issues. Provides a comprehensive review of impact of site on construction and building design on the site and its resources. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment. S/U graded. Prerequisite: TECH 57000.

**67511 Sustainable Building Construction II (3)**

Second course of a two-course sequence. Provides an in-depth survey of design, pre- and post-construction activities pertinent to Green Building and Sustainable Design of the Built environment. Reviews fundamental concepts and principles of sustainable building design and construction with special emphasis on building systems. Provides a comprehensive review of impact of building component, materials, and systems on design and construction of High-performance buildings. Focus is on understanding the role building design and construction play on resources efficiency and minimizing the impact of construction activities on the environment. S/U graded. Prerequisite: ARCH 67510.

**Art (ART)**

[Kent State University Catalog 2010 - 2011 > Course Information > Course Descriptions Spring 2011 > ART \(Art\)](#)

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

(Repeatable for credit) 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.

\*Course ineligible to be repeated for GPA recalculation.

**Graduate Art Crafts (ARTC)**

[Kent State University Catalog 2010 - 2011 > Course Information > Course Descriptions Spring 2011 > Graduate Art Crafts \(ARTC\)](#)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**55095 Crafts: Selected Topics (3)**

Specialized courses in crafts that focus on specific techniques and media. Prerequisite: special approval. Special fee: \$90.

**65095 Crafts: Special Topics (3)**

Specialized courses in crafts that focus on specific techniques and media. Prerequisite: special approval. Special fee: \$150.

**65991 Seminar in Crafts (2)**

Contemporary issues and professional concerns in the crafts explored through presentations, lectures and discussion. Graduate faculty and guest speakers.

**65996 Individual Study:  
Crafts (1-15)**

Independent study in ceramics, glass, enamels, jewelry/metals or fiber arts. IP permissible. Special fee: \$50 per credit hour.

**Graduate Art Education  
(ARTE)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Art Education (ARTE)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**51002 Art Education: Methods and Materials (3)**

An examination of relationships between content, materials and strategies for teaching art. 7 field and/or clinical hours are associated with this course. Prerequisite: special approval.

**51525 Art Education: Inquiry Into Professional Practice (3)**

Concepts and practices related to teaching art. Inquiry into teaching art as a professional practice. 26 field and/or clinical hours are associated with this course.

**61001 Seminar in Art Education (3)**

Required of Master of Arts students in art education. Appropriate course for graduate students in education, art and other graduate programs. Historical analysis of art education foundations. Prerequisite: special approval.

**61003 Problems and Issues in Art Education (3)**

Required of Master of Arts students in art education. Appropriate course for graduate students in education, art and other graduate studies. Trends in art education. Prerequisite: ARTE 61001 and special approval.

**61095/71095 Special Topics: Art Education (3)**

A course in which the topic changes to reflect the interests and specializations of faculty. Prerequisite: ART 61198 and instructor approval.

**61096 Individual Study— Art Education (1-6)**

Specialized study leading to the thesis in art education. IP permissible. Prerequisite: ART 61001, 61003, 61198 and permission.

**61198 Research in Art Education (3)**

Specialized research leading to the thesis in art education. IP permissible. Prerequisite: ARTE 61001 and 61003 and special approval.

**61209 Candidacy Review Examination: Art Education (1)**

This comprehensive review is a formal assessment of students' knowledge and understanding of concepts in art, education and art education. Prerequisite: ARTE 61198 and instructor approval. S/U and IP grading.

**61298 Master's Project: Art Education (2)**

A course for guiding the design, preparation of drafts, and presentation of the terminal project in the non-thesis track of the M.A. program in Art Education. Prerequisite: ARTE 61209 and instructor approval. S/U and IP grading.

**Graduate Art Fine Art  
(ARTF)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Art Fine Art (ARTF)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**54091 Studio Seminar: Selected Topics (3)**

Contemporary issues related to visual arts explored through presentation, lecture and discussion. Guest speakers augment staff. Repeatable for a total of 9 hours. Special fee: \$12 per credit hour.

**64040 Printmaking: Individual Study (2-10)**

Continued development on a personal direction in printmaking. Prerequisite: Special approval. Special fee: \$15 per credit hour.

**64050 Sculpture: Individual Study (2-10)**

Continued development of a personal direction in sculpture. IP permissible. Special fee: \$22 per credit hour.

**64060 Painting: Individual Study (2-10)**

Individual study, painting. IP permissible. Prerequisite: special approval. Special fee: \$10 per credit hour.

**64096 Individual Investigation: Fine Art (2-10)**

Independent study in drawing, painting, printmaking or sculpture. IP permissible. Prerequisite: graduate standing in M.A. or M.F.A. in Fine Arts. Special fee: \$25 per credit hour.

**64098 Research (1-15)**

Studio research in the visual arts.

**Graduate Art History  
(ARTH)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Art History (ARTH)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**52025 The 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. Special fee: \$45

**52026 Art of Nigeria (3)**

Study of the arts, crafts and architecture of Nigeria from prehistoric times to present. Special fee: \$45

**52027 Art of Central Africa (3)**

Study of the arts, crafts and architecture of Central Africa from prehistoric times to present. Special fee: \$45

**52031 Greek Art and Archaeology (3)**

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

**52032 Roman Art and Archaeology (3)**

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

**52036 Medieval Art (3)**

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

**52039 Gothic Art: 12th to 15th Centuries (3)**

An examination of the development of European Gothic art from the 12th to the 15th centuries. Students will research specific works of art. The course will put emphasis on contemporary, historical, philosophical and literary figures.

**52041 Italian Renaissance Art (3)**

Study of development of major themes in Italian art from 1400 until about 1550, emphasizing achievements of the masters and

analyzing major ideas and theories of the period. Special fee: \$45

**52042 Northern Renaissance Art (3)**

Study of stylistic and iconographic questions and technique in northern panel painting as well as other arts in northern Europe.

**52046 Baroque Art of the 17th Century (3)**

A study of the origins of baroque art in Italy and its spread throughout Flanders, the Netherlands, France and Spain. Special fee: \$45

**52047 Rococo Art of the 18th Century (3)**

A study of 18th-century art in France and subsequent spread and development throughout continental Europe.

**52051 European Art: 1750-1900 (3)**

Selected studies in late-18th-century and 19th-century painting, sculpture, architecture and allied arts of England, France, Germany and Spain. Special fee: \$45

**52058 American Film, Photography, Art and Ideas (3)**

Key examples of photography from the 19th century to present day.

**52061 Early 20th Century Art (3)**

A study of painting, sculpture, architecture and allied arts in Europe from 1880 to 1940. Special fee: \$45

**52066 Late Modern Art Since 1940 (3)**

A study of painting, sculpture and allied arts in the United States and Europe from 1940 to the present. Special fee: \$45

**52070 History of Graphic Design (3)**

This course traces the arts of visual communication from their origins to current trends and practices with an emphasis on theory and aesthetics.

**52078 History of Decorative and Applied Arts (3)**

Historical and critical examination of decorative and applied arts and their relationship to Western societies that produced them.

**52095 Special Topics: Art History (1-3)**

Discussion and lecture course whose topic changes in accordance with the interest and competence of the faculty. Precise title will be inserted in Schedule of Classes.

**62056 American Art: 1600-1860 (3)**

Intensive survey of the major forms of art, styles, personalities, patrons, institutions and esthetic theories in the United States from its beginnings to the Civil War.

**62057 American Art: 1860-1940 (3)**

In-depth study of American painting, sculpture, graphics and allied arts from 1860 to 1940.

**62071 History of Prints (3)**

A chronological survey of printmaking (engraving, etching, lithography, etc.) from 1400 to the present, emphasizing its technical and stylistic evolution.

**62072 Introduction to Museology (3)**

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

**62075 Film and Photography in Western Art and Ideas (3)**

Selected studies of film and photography within the broader context of Western realism and ideas.

**62091 Art History Seminar (3)**

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

**62095 Special Topics: Art History (3)**

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

**62096 Selected Problems— Art History (3)**

The course content changes each semester according to the topic, entailing discussion and lectures on specific problems, issues and areas in art history. Repeatable for a total of 9 hours. Prerequisite: special approval.

**62098 Research (1-15)**

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

**Graduate Arts and Sciences (AS)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Arts and Sciences (AS)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50095/70095 Special Topics (1-5)**

Topic to be announced in the Schedule of Classes. Repeat registration permitted when content varies. Prerequisite: special approval.

**50096/70096 Individual Investigation (1-6)**

Pursuit of a subject matter beyond normal course coverage, supervised by a graduate faculty member.

**53001/73001 Legal Information Sources and Services**

(Cross-listed with LIS 6/80619)  
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.

**60220 Bioinformatics (4)**

Theory, methods and computational approaches used to interpret large volumes of biosciences information reviews of major data repositories. An interdisciplinary research project is required.

**61000 Introduction to Liberal Studies (2)**

Introduction to history, philosophy and curricular structure of graduate liberal studies.

**61095 Liberal Studies Seminar (3)**

An interdisciplinary seminar designed for candidates in the Liberal Studies program. Topics will vary.

**61098 Liberal Studies Essay (3)**

The preparation of an essay of approximately 50 pages on a topic related to the student's program of study for the Master of Liberal Studies degree. S/U grading; IP permissible.

**Graduate Athletic Training (ATTR)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Athletic Training (ATTR)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**55038 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.

**55039 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.

**55040 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 treatments and physiologic effects for various afflictions. Prerequisite: ATTR 25036.

**62010 Contemporary Issues in Athletic Training (3)**

A comprehensive examination of contemporary issues, trends, and problems affecting athletic training professionals related to the domains of practice for athletic trainers.

**62012 Education and Supervision Processes in Athletic Training (3)**

A comprehensive examination of educational learning theories, curriculum design, evaluation and supervision strategies in athletic training education programs from didactic and clinical perspectives. Additional applications for continuing education programs will be included.



**62014 Advanced Clinical Applications in Athletic Training (3)**

A comprehensive examination of advanced topics in athletic training such as advanced evaluation skills, multi-dimensional approaches to therapeutic rehabilitation skills and applications in non-traditional athletic training settings such as industrial medicine and physician-extender.

**62016 Clinical Inquiry in Athletic Training (3)**

Principles of athletic training research methodologies with a focus on clinical athletic training research. Completion of a clinical research project will be required in this course.

**63018 Ethics for Allied Health Professionals (3)**

Examination of specific situations in the allied health professions of athletic training and exercise science from an ethical sensitivity, reasoning and decision making perspective. A problem-oriented case study approach based upon

**Business Administration (BAD)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Business Administration (BAD)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**60092/70092 Internship (3)**

Practical experience with a commercial or nonprofit organization under the guidance of a professor who is a member of the graduate faculty. Periodic progress reports are required with a graduate-level-quality paper and possible presentation at the end of the course. Prerequisite: special approval.

contemporary moral issues and moral theory related to clinical and academic health professionals.

**63095/73095 Research Seminar (1)**

Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. S/U grading.

**63096 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. Repeat registration permitted for a maximum of 6 credit hours. IP permissible. Prerequisite: special approval.

**63098 Research (1-15)**

Research or individual investigation. Repeat registration permitted. IP permissible.

**63193 Variable Title Workshop in Athletic Training (1-3)**

**60093/70093 Variable Title Workshop (1-6)**  
Workshops on selected business administration subjects designed to meet needs of special groups. S/U grading.

**60095 Special Topics in Business Administration (1-3)**

In-depth exposure to selected topics in business administration. Topics will vary depending on instructor and topic of current interest. Repeat enrollment for different topics permitted.

**60096 Individual Investigation (2-3)**

For M.B.A., M.S. or M.A. candidates who have completed a minimum 12 hours of work of superior quality, with permission of the director, Graduate School of Management. Prerequisite: special approval.

Workshop in athletic training; topics vary. Repeated registration permitted. Maximum 4 credit hours applied to the degree.

**63195 Special Topics in Athletic Training (1-3)**

Selected and varied topics of relevance in athletic training. Repeatable for a total of 6 credit hours.

**63199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester, distributed over several semesters if desired. S/U grading; IP permissible.

**63299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ATTR 63199.

**65004 Biomechanics (3)**

(Cross-listed with EXPH 75004)  
Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.

**60098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: BAD 60199.

**61093/71093 Workshop in College Teaching (1-2)**

A series of seminars devoted to enhancing doctoral students' teaching abilities. This course is open to all doctoral students but is

intended for students newly enrolled in the program. S/U grading.

**61094/71094 College Teaching (1-2)**

Training, supervision and evaluation in college-level instruction. Maximum of 2 hours applicable toward degree. S/U grading. Repeat registration permitted.

**63022/73022 Professional Issues and Ethics in Accounting (3)**

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

**63024/73024 IT Audit and Control (3)**

Examines the control and security of accounting information systems with an auditing perspective. Includes the role of IS audit function, IS auditing standards, system risks, application controls, and current issues facing IS auditors. Research, writing, and ethics will be emphasized. Prerequisite: ACCT 43010 and ACCT 4/53014.

**63025/73025 Analysis and Valuation of Business Using Financial Statements (3)**

Uses financial statements to analyze business strategy, accounting issues, finances, and future prospects. Uses case studies to apply business valuation framework to security analysis, credit, corporate financing policies, and management communications. Research and writing will be emphasized. Prerequisite: ACCT 33001 or BAD 63037.

**63030/73030 International Accounting (3)**

Study of reporting in United States capital markets for domestic and foreign firms; evaluation of differences in accounting, auditing and financial reporting between nations; impact of international operations on accounting for decisionmaking. Interpersonal skills emphasized. Prerequisite: ACCT 33012.

**63031/73031 Advanced Auditing Theory and Practice (3)**

Advanced conceptual and practical understanding of audit methodology and role of auditors. Focus on use of professional judgment in applying auditing standards, on ethical considerations, and on fraud. Review of current trends and developments in the public accounting profession. Written communication and ethical decision-making emphasized. Prerequisite: ACCT 43010.

**63032/73032 Accounting Theory, History and Institutions (3)**

Survey of history of accounting and development of principles, followed by intensive study of theoretical problems related to determination of income and presentation of financial position. International and current issues also discussed. Written communication and ethical decision-making emphasized. Prerequisite: ACCT 33012.

**63037/73037 Financial Accounting—Managerial Action (3)**

In-depth study of financial accounting concepts and basic financial statements. Examination of significant accounting issues affecting financial reporting and their impact on analysis and interpretation of financial information for decision-making. Open only to M.B.A. and M.A. students. Cannot count toward M.S.A. degree.

**63038/73038 Accounting for Managerial Action and Evaluation (3)**

Review of cost accounting concepts and cost behavior. In-depth study of

analyzing costs for pricing and product mix decisions; activity-based cost systems; budgeting; planning and control issues; methods of remaining competitive in a global environment; compensation issues. Open only to M.B.A. and M.A. students. Cannot count toward M.S.A. degree. Prerequisite: special approval

**63042 Taxation of Corporations and Shareholders (3)**

An in-depth study of tax law that pertains to corporations and shareholders; corporate organization; liquidation; reorganization; and subchapter S Tax research and verbal communication emphasized. Prerequisite: ACCT 43031.

**63043 Taxation of Partnerships and Partners (3)**

An in-depth study of formation, operation, termination and liquidation and other special problems of partnerships. Tax research and verbal communication emphasized. Prerequisite: ACCT 43033/53033.

**63045 Tax Research and Planning (3)**

Tax planning; tax accounting practice; administrative procedure; research methodology and problems. Tax research and verbal communications emphasized. Prerequisite: ACCT 43033/53033.

**63046 Advanced Tax Issues (3)**

Advanced tax coverage of C and S corporations and partnerships. The Internal Revenue Code, Treasury Regulations and case law will be utilized in problem-solving. Ethics, verbal communications, and negotiating skills will be stressed. Prerequisite: ACCT 43033/53033.

**63092 Internship (3)**

Supervised practical experience with public accounting firm or industrial firm. Periodic reports required. S/U grading. Prerequisite: Enrollment in the M.S. in Accounting program; ACCT 33010 and 33012.



**63093/73093 Variable Title Workshop in Accounting (1-3)**

To be determined when a specific course is proposed for a particular term. S/U grading. Prerequisite: special approval.

**63098/73098 Research in Accounting (1-3)**

Individually selected topic is investigated and reported informal paper. May extend beyond one semester. IP grade permissible. Prerequisite: Major in accounting (ACCT).

**64005/74005 Statistics for Management (3)**

This course uses computer capabilities to use and understand a variety of statistical techniques and applies these techniques to business problems. Prerequisite: Admission to M.B.A. program.

**64007/74007 Information Technology (3)**

Overview of database and advanced information processing technologies and their integration. Emphasis is placed on the use of the application to the manufacturing and service industries. Prerequisite: special approval.

**64011 Systems Simulation (3)**

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis of interpretation and of results. Prerequisite: special approval.

**64012/74012 Scheduling and Planning (3)**

An introduction to production planning and scheduling models used to solve real-world problems. Included are aggregate planning; nonlinear cost; production and work force smoothing; adaptive, multistage models and pull systems (JIT, OPT). Prerequisite: BAD 6/74003.

**64013/74013 Nonparametric Statistics (3)**

This course is a presentation of statistically sound techniques for analysts who want to adopt nonparametric procedures to their specific analytic needs. Prerequisite: BAD 6/74005.

**64015/74015 Stochastic Models (3)**

Mathematical modeling of systems involving one or more random variables. Probabilistic concepts in mathematical modeling; Poisson process, Markov chains and processes with applications to production, inventory, reliability and queues. Prerequisite: special approval.

**64017/74017 Multivariate Statistics (3)**

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis, cluster analysis and factor analysis. Prerequisite: BAD 6/74023.

**64018/74018 Mathematical Programming (3)**

Advanced techniques including interior-point methods in linear programming; branch-and-bound and cutting-plane methods; traveling salesman and knapsack models in integer programming. Prerequisite: BAD 6/74003.

**64019/74019 Research Seminar in Supply Chain Management (3)**

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course addresses quantitative modeling to support operational, tactical and strategic decision-making in supply chain management. Prerequisite: BAD 6/74015.

**64020/74020 Advanced Statistical Models (3)**

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity, and reliability issues. Prerequisite: BAD 6/74023.

**64023/74023 Linear Statistical Models and Applications (3)**

Models and applications of simple and multiple regression, correlation and analysis of variance. Prerequisite: BAD 6/74005.

**64031/74031 Quality and Reliability Systems (3)**

Modern quality and reliability assurance that combines statistical and behavioral aspects; sampling plan, statistical process control, tolerancing, reliability assurance, product and product optimization, economical allocation and scheduling of inspection. Prerequisite: special approval.

**64033/74033 Modern Manufacturing Management (3)**

Major areas of study: Importance of manufacturing and competitive position of U.S. manufacturing; strategic and organizational responses to gain competitive advantage; developments in manufacturing systems and management techniques. Prerequisite: special approval.

**64041/74041 Operations Management (3)**

Develops a framework for analysis of operating problems. Uses computer, quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy. Prerequisite: BAD 64005.

**64042/74042 Management Information Systems (3)**

Theory, development, application and management of information systems and their impact on people and organizations; emphasis on strategy, ethics and competitive advantage of modern technology.

**64045/74045 System Development Methodologies (3)**

Critical comparative analysis of various technological and organizational methods for design, construction and maintenance of information systems. Survey of contemporary technologies and extrapolation to possible futures. Prerequisite: special approval.

**64046/74046 Seminar in Computer-Supported Collaborative Work (3)**

Technical and management considerations of collaborative work technology, including networking; topics such as groupware, group decision support systems, telework, local area networking, Internet and network references. Prerequisite: special approval.

**64047/74047 Manufacturing Technology and Strategy (3)**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included. Prerequisite: special approval.

**64080/74080 Emerging Hardware and Software Technologies (3)**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory. Prerequisite: special approval.

**64081/74081 Data Communications and Networking in Business (3)**

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services, communication standards and protocols, local area networks and network management. Prerequisite: special approval.

**64082/74082 Database Management Systems (3)**

In-depth investigation of intelligent database management systems in support of business decision-making. An understanding of relational databases is assumed. Object oriented and semantic database will be explored. Prerequisite: special approval.

**64083 Information Security: A Managerial Perspective (3)**

Introduction to the information security areas that managers must understand in order to deal with today's security threat-laden environment. The emphasis is on the important principles and concepts that managers utilize to develop effective security risk management programs. Prerequisite: Admission to the M.B.A. program or admission to the M.S. program in Information Architecture and Knowledge Management.

**64108/74108 Advanced Topics in Human Resources Management and Organizational Behavior (3)**

Intensive investigation of selected topics in human resources management and/or organizational behavior. Students will be expected to undertake a research project on a topic jointly determined by the student and the instructor. Prerequisite: special approval.

**64158 Leadership and Managerial Assessment (3)**

Develop understanding and skills in self-management and team leadership using assessment instruments, role playing and organizational incidents. IP permissible.

**64160/74160 Leadership and Organizational Change (3)**

Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies.

**64165/74165 High Performance Organizations (3)**

Considers the traits of organizational leaders and the processes they use to implement changes in organizations.

**64185/74185 Business Strategy (3)**

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills. Prerequisite: Completion of 24 credit hours of business administration (BAD) courses; 74185: special approval.

**64261/74261 Strategic Decision-Making and Human Resource Management (3)**

Provides a graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making. Prerequisite: special approval.

**64263/74263 Employee Selection and Appraisal (3)**

This course will focus primarily on issues associated with the person-/job-matching process in modern organizations related to the selection and appraisal of employees. Prerequisite: BAD 64271.

**64270/74270 Organizational Analysis (3)**

Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment. Prerequisite: special approval.

**64271 Human Resource Management (3)**

Explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. Prerequisite: Admission to M.B.A. program.

**64275/74275 Corporate and Global Management (3)**

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager. Prerequisite: completion of 24 credit hours of business administration (BAD) courses and special approval.

**64277/74277 Micro-Organizational Analysis: Individual Behavior (3)**

An examination of theory and research on individual behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design and feedback systems.

**64285/74285 Technology Management and Entrepreneurship (3)**

This course will cover tools and processes for anticipating and implementing high technologies to assure maximum return on investment for long-term competitive advantage. Prerequisite: BAD 6/74007 and 6/74049.

**65050/75050 Modern Entrepreneurial Management (3)**

Analysis and application of the key elements of both entrepreneurship (new business starts) and entrepreneurship in existing companies. Prerequisite for 6/75050: Completion of 24 credit hours of business administration (BAD) courses and special approval.

**65051/75051 Marketing Management (3)**

Analysis of marketing management at a level appropriate to students with limited background in the subject. Course encompasses lecture discussion, problems, and cases.

**65053/75053 Promotion Management (3)**

All elements of the promotional mix — advertising, sales, promotion, publicity, public relations and personal selling — will be

considered as part of an integrated communications strategy. Primary emphasis will be placed on advertising. A comprehensive set of analytical frameworks will be developed covering a range of topics from the firm's marketing strategy to the message strategy embodied in a single advertisement. These analytic frameworks will be applied to a series of case studies throughout the course. Prerequisite: BAD 65051.

**65054/75054 International Marketing (3)**

This course focuses on the types of marketing decisions facing the international marketing manager or vice president in the multinational firm. Prerequisite: BAD 6/75051.

**65057/75057 Marketing Research (3)**

Examination of the research process as applied to decision-making. Course focuses on steps in problem formulation, the research process, application of techniques, and basic data analysis using SPSS-PC. Prerequisite: BAD 65051.

**65060/75060 Marketing Strategy and Planning (3)**

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations. Prerequisite: BAD 65051.

**65063/75063 Analytical Methods in Marketing Research (3)**

Application of statistical techniques in marketing research. Prerequisite: BAD 6/74003 and 6/75051.

**65064/75064 Buyer Behavior (3)**

An analysis of the concepts of buyer/consumer behavior, focusing on the behavioral sciences theories underlying marketing models and their application to marketing strategies. Prerequisite: BAD 6/75051.

**65066/75066 Marketing Theory (3)**

Examination of the evolution of marketing thought and philosophy of science concepts as the

foundations for evaluating theoretical constructs in marketing. Prerequisite: 6/75051.

**65068/75068 Marketing Strategy and Planning for Nonprofit Organizations (3)**

Focuses on the development and implementation of marketing plans in the private and public nonprofit organizations. Prerequisite: BAD 6/75051.

**65184/75184 International Business (3)**

Study of the business firm in a global context. Application of theory and practice of American business administration to international operations of firms. Prerequisite: ECON 6/72021.

**66050 The Legal and Ethical Environment of Management Decisions (3)**

This course examines the impact that various laws and regulations as well as ethical considerations in society exert on the business managerial decision-making process.

**66061/76061 Financial Management I (3)**

Study of financial decision-making processes within a firm. Emphasis on applications and strategic planning in investment, financing, dividend and working capital decisions. Prerequisite: BAD 63037 and 63038; ECON 62021.

**66062/76062 Financial Management II (3)**

Advanced treatment of financial topics with focus on current issues of strategic importance. Case and project intensive. Prerequisite: BAD 6/76061.

**66063/76063 Financial Markets and Institutions (3)**

Study of money and capital markets and institutions and their managerial and environmental problems, including regulation and supervision by government. Prerequisite: BAD 6/76061.

**66064/76064 International Financial Management (3)**

Problems facing financial management of multinational firms including environmental problems, organizing for optimal results, sources and uses of funds, accounting, tax and control problems. Prerequisite: BAD 6/76061.

**66065 Comercial Bank Management (3)**

Application of financial concepts to management of commercial banks. Emphasizes decision-making and problem-solving techniques. Prerequisite: BAD 6/76063.

**66066/76066 Advanced Security and Investment Theory (3)**

Integrated investment analysis with portfolio analysis and management. Coverage of the leading portfolio and capital asset models. Prerequisite: BAD 66061.

**66067 Risk Management and Derivatives (3)**

Theory and practice of financial valuation, computation and analysis. Valuation of derivative financial instruments, diffusion models, systematic risk analysis, and optimal multicurrency, multi-asset attribution analysis for global portfolio management. Prerequisite: BAD 66061.

**66069 Real Estate (2)**

A study of real estate valuation, financing, investment and brokerage. Emphasis is in both theoretical and pragmatic terms with regard to land use and development.

**67007/77007 Computer Systems — EMBA (2)**

An introduction to the use of computers in business decision-making. Prerequisite for 67007: EMBA admission. Prerequisite for 77007: special approval.

**67010/77010 Executive Communications — EMBA (2)**

Analysis and practice of written, verbal and nonverbal communication skills as they apply to managerial and work-group

productivity and quality of work life.

**67031/77031 Financial Reporting for Executives — EMBA (2)**

Study of basic principles, concepts and financial reporting for external users and the impact this will have on executive decisions.

**67032/77032 Accounting Information for Executive Action — EMBA (2)**

Study of managerial decision-making through planning and control techniques. Major emphasis will be on profit planning, responsibility accounting, cost behavior patterns, and application of accounting data to basic planning and control decisions.

**67040/77040 Operations Management — EMBA (2)**

This course is designed for executives who have minimal experience with the production or operations phase of business. In this course, they will develop skill in defining operating problems, in identifying alternative solutions and selecting the most viable solution.

**67041/77041 Applied Statistical Analysis — EMBA (2)**

An analysis of univariate and multivariate statistical models and the use of these models to solve practical problems. A comparison of classical and neoclassical statistical approaches is also conducted.

**67042/77042 Management Information Systems — EMBA (2)**

Synthesis of computer/information technology organization behavior and functional aspects of business to enhance decision-making and strategic planning skills of the manager.

**67043/77043 Dynamics of Leadership for Executives — EMBA (2)**

Leadership skills including: team development, conflict resolution, negotiation, communications and project development. These skills along with ethical considerations are

developed to enhance business decision-making. Prerequisite for 6/77043.

**67051/77051 Marketing Management — EMBA (2)**

The various elements comprising marketing strategy are studied as components of integrated programs directed toward industrial and consumer markets.

**67058/77058 Marketing Strategy and Planning — EMBA (2)**

Focuses on integration of marketing planning into the strategic planning process. Deals mostly with marketing strategy at the level of senior management rather than operations.

**67061/77061 Financial Planning and Strategy — EMBA (2)**

Problems and approaches to financial decision-making in business enterprises: controlling the allocation of funds among both current and fixed assets, assessing financial needs, and planning the mix and methods of financing.

**67062/77062 Money and Capital Markets — EMBA (2)**

Analysis and evaluation of the structure, functions and characteristics of domestic and international money and capital markets as the financing mechanism for business and non-business systems.

**67070/77070 Organizational Analysis and Design — EMBA (2)**

The course is concerned with the development of both theoretical and practical concepts related to complex work organizations.

**67071/77071 Human Resource Management — EMBA (2)**

The course will deal with some of the major areas of interest to the management of human resources. Special emphasis will be placed on areas of staff planning, such as job analysis and selection.

**67082/77082 Legal and Social Impact on Managerial Decision-Making — EMBA (2)**

Managerial decision-making is examined in terms of the real and potential impacts of the legal, political and social environment of business.

**67084/77084 Multinational Business Management — EMBA (2)**

The course covers the management of multinational corporations, including environmental and cultural aspects and the financial, marketing, production and personnel functions of international operations.

**67085/77085 Executive Policies and Planning — EMBA (2)**

The course concentrates on the determination of corporate strategy in the business firm and its implementation through appropriate organizational arrangements and procedures.

**67090/77090 Applied Research Design — EMBA (1)**

Introduction to research design in management. The course deals with the applications of the scientific method to solving organizational problems with a decision-making context.

**67091/77091 Seminar in Executive Skills Development — EMBA (1-2)**

A series of seminars developing managerial skills such as communications, leadership, teamwork, project and time management, etc. Offered primarily in first year of program.

**67096/77096 Applied Research Project — EMBA (3)**

A research project based on an applied business or economic problem will be conducted under the direct supervision of a participating faculty member in the EMBA program.

**67191/77191 Seminar in Current Issues for Executive Development — EMBA (1-2)**

A series of seminars on current managerial, technological or economic problems facing the executive in today's society. Emphasis on global issues.

**67291/77291 EMBA Residency Seminar (1-2)**

A two- to-three-day intensive introduction to basic concepts and integration of EMBA program content. Emphasis on group analysis and/or simulation.

**68051 Business Professional Development (1)**

Development of professional business skills for the full-time MBA student to use in career development during and after graduation. Students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: admission to Master of Business Administration (MBA).

**70198 Research (1-15)**

Research or individual investigation for doctoral-level students, or master's students with at least 34 hours of graduate coursework. B AD 80091 Doctoral Seminar (1) A continuing seminar for all students in the Ph.D. program that cuts across all areas of functional specialization. Prerequisite: Admission to Ph.D. program.

**72021 Business Conditions Analysis and Public Policy (3)**  
(Cross-listed with ECON 62021)

Analysis of forces determining economic growth, employment, inflation and international competitiveness, with emphasis on understanding the business cycle and government stabilization policies. Prerequisite: B AD 64005 (may be taken concurrently).

**72022 Managerial Economics (3)**  
(Cross-listed with ECON 62022)

Uses economic theory and quantitative methodologies to develop decision-making skills that enable managers of local, national

and multinational companies to evaluate problems and allocate resources efficiently. Prerequisite: B AD 64005, and MATH 11012, MATH 12002 or ECON 62010.

**72050 Micro-Economic Theory I (3)**

(Cross-listed with ECON 62050) Comprehensive analysis of methodology of economics, consumer behavior, production and costs, the firm, markets and welfare economics. Prerequisite: ECON 62022. (It would be useful if the student had some facility in integral and differential calculus.)

**72051 Macroeconomic Theory I (3)**

(Cross-listed with ECON 62051) Analysis of the determination of the level of income, employment, inflation, economic growth, consumption, investment, money demand and supply, the international sector, and economic policy are discussed. Prerequisite: ECON 62021 and ECON 62022.

**72054 Econometrics I (3)**

(Cross-listed with ECON 62054) Introduction to problems and methods of the empirical estimation of economic relationships.

**72055 Econometrics II (3)**

(Cross-listed with ECON 62055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation. Prerequisite: ECON 62054.

**72056 Time Series Analysis (3)**

(Cross-listed with ECON 62056) Covers various linear and non-linear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the financial engineering trading floor. Prerequisite: Special approval of instructor.

**72061 Monetary Theory and Policy (3)**

(Cross-listed with ECON 62061) A study of the nature and definition of money, its relationship to prices, output, employment and interest rates, and problems related to the conduct of monetary policy. Prerequisite: ECON 62021.

**72071 Labor Economics (3)**

(Cross-listed with ECON 62071) Theoretical and applied analyses of wage determination, the supply of skills, labor market discrimination, and the effects of trade unions and government policies. Prerequisite: ECON 62022.

**72075 International Trade (3)**

(Cross-listed with ECON 62075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade, and the effect of international trade on domestic policy. Prerequisite: ECON 62021 and ECON 62022.

**72076 International Finance (3)**

(Cross-listed with ECON 62076) Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and international capital flows. Prerequisite: ECON 62021.

**72077 Economic Problems of Developing Areas (3)**

(Cross-listed with ECON 62077) In-depth analysis of selected topics and issues in development economics. Prerequisite: ECON 52076.

**72078 Seminar in International Economics (3)**

(Cross-listed with ECON 62078) Analysis of recent contributions and current problems in international trade and finance. Prerequisite: ECON 62075 and 62076.

**72180 Regional Economics (3)**

(Cross-listed with ECON 62180) Examines techniques of regional economic analysis with the object of

promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

**72182 Public Expenditure and Cost Benefit Analysis (3)**

Theoretical and applied aspects of public expenditure and cost benefit analysis. Uses economic theory to appraise public expenditure alternatives in advanced and developing countries. Prerequisite: ECON 62022.

**74262 Competitive Strategic Analysis (3)**

Develops an understanding of the critical factors involved in formulating industry-analytic, competitive strategy and evaluating its effectiveness. Prerequisite: Special approval.

**80098 Research (1-3)**

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Usually research applied toward dissertation. Prerequisite: special approval.

**80199 Dissertation I (10-15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: special approval.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: BAD 80199.

**82024 Seminar in Applied Economic Analysis (3)**

Discussion and analysis of selected current economic problems confronting the economy and the business sector. Emphasis will be on applied analysis.

**83031 Auditing Issues (3)**

A seminar designed to provide doctoral students with the opportunity to broaden their understanding of financial and operational auditing theory and research. Prerequisite: ACCT43010.

**83033 Managerial Accounting Issues (3)**

Library research and discussion will cover basic areas in cost/managerial accounting. Coverage will include a thorough understanding of the areas, the role of mathematical models, and emerging issues/problems. Emphasis will be placed on integrating the topical areas.

**83037 Financial Accounting Issues (3)**

Capstone theory course in which accounting convention, principles and concepts of a currently controversial nature are explored and debated. Emerging issues in financial accounting, reporting and research are examined.

**83038 Basic Accounting Research Methodology (3)**

Examination of basic research methodology and how the methodology is applied in accounting research. Introduction to statistical packages and databases. Research paper required; IP permissible.

**83091 Seminar — Selected Accounting Topics (3-6)**

Topics vary with each offering, usually from the following: auditing, taxation, fund accounting, accounting systems, and accounting education issues. Repeat enrollment for different topics permitted. Prerequisite: special approval.

**84007 Information Technology (3)**

Overview of information technologies and their management. Emphasis is placed on current issues in each of the IS technology types and business issues on their acquisition, management and value.

**84011 Systems Simulation (3)**

Techniques and applications of computer simulation of existing or

proposed real-world systems. Use of simulation language, simulations studies, analysis of interpretation and of results. Prerequisite: special approval.

### **84012 Scheduling and Planning (3)**

An introduction to production planning and scheduling models used to solve real-world problems. Included are aggregate planning, nonlinear cost, production and workforce smoothing, adaptive, multistage models and pull systems (JIT,OPT).

### **84015 Stochastic Models (3)**

Mathematical modeling of systems involving one or more random variables: basic probability theory, Poisson process, Markov chain and Markov process, with applications to production, inventory, reliability and queuing systems. Prerequisite: special approval.

### **84020 Advanced Statistical Models (3)**

This is a special-focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, other advanced statistical models, internal, external validity and reliability issues, and time series analysis.

### **84031 Quality and Reliability Systems (3)**

Modern Q&R assurance that combines statistical and behavioral aspects: Sampling Plans, Statistical Process Control, Tolerancing, Reliability Assurance, Product and Product Optimization, Economical Allocation and Scheduling of Inspection.

### **84045 System Development Methodologies (3)**

Critical comparative analysis of various technological and organizational methods for design, construction and maintenance of information systems. Survey of contemporary technologies and extrapolation to possible futures.

### **84047 Manufacturing Technology and Strategy (3)**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included. Prerequisite: special approval.

### **84080 Emerging Hardware and Software Technologies (3)**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operations systems, artificial intelligence, neural networks and chaos theory.

### **84081 Data Communications and Networking in Business (3)**

An introduction to telecommunications networks, services and regulations. Topics include transmission media, communications standards and protocols, local and wide area networks, and network management and security.

### **84082 Database Management Systems (3)**

In-depth investigation of intelligent database management systems in support of business decision-making. An understanding of relational databases is assumed. Object orientation and other advanced database concepts will be explored.

### **84083 Information Infrastructure Security (3)**

A course in infrastructure security. In-depth examination of current issues in this field including network vulnerability, privacy and legal issues and government agencies. Pre- or corequisite: BAD 84112.

### **84108 Advanced Topics in Human Resource Management and Organizational Behavior (3)**

Intensive investigation of selected topics in human resources management and/or organizational behavior. Students will be expected to undertake a research project on a

topic jointly determined by the student and the instructor.

### **84112 Research Methodology (3)**

The objectives of this course are to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS; enable students to conduct meaningful and high-quality research in their specific field of interest.

### **84261 Strategic Decision-Making and Human Resource Management (3)**

Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making. Prerequisite: special approval.

### **84262 Competitive Strategic Analysis (3)**

Develops an understanding of the critical factors involved in formulating industry-analytic competitive strategy and evaluating its effectiveness.

### **84263 Employee Selection and Appraisal (3)**

This course will focus primarily on issues associated with the person-/job-matching process in modern organizations related to the selection and appraisal of employees.

### **84266 Readings in Management Systems (3)**

Survey of the leading writers and research studies in the area of management systems. The course addresses methodologies, major theoretical developments and practical applications.

### **84275 Corporate and Global Strategy (3)**

Focuses on review and integration of the several streams of literature dealing with strategy for, and management of, the product-diversified and/or internationally-diversified firm. Also, in order to complement the emphasis of other

doctoral offerings on strategy formulation topics, this seminar places a special emphasis on strategy process, organizational structure and administrative mechanisms. In particular, it explores the foundations as well as current research on corporate governance, broadly defined. This includes (a) the set of mechanisms available to align the interest of top managers to those of shareholders, as well as (b) the mechanisms available to motivate and control middle managers so that their decisions and behaviors are aligned with intended corporate and/or international strategy and goals.

**84277 Organizational Behavior and Theory (3)**

An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics power and teams.

**84285 Technology Management and Entrepreneurship (3)**

Covers topics pertaining to innovation management at micro-level (entrepreneurship, corporate entrepreneurship), meso-level (networks), and macro-level (cross-country and within-country comparisons).

**84291 Seminar in Management Systems (3)**

Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor. Prerequisite: special approval.

**86061 Theories of Financial Decision-Making (3)**

Object is to discuss how individuals and firms allocate resources through time. Basic emphasis on optimal investment decisions under conditions of certainty and uncertainty.

**86062 Theory of Corporate Finance (3)**

A study of the theory and empirical evidence from a global perspective regarding corporate financial management. IP permissible.

**86064 International Financial Markets, Institutions and Management (3)**

This course presents an intense examination of the major global issues and underlying theories concerning the financial management of international business firms and the financial markets and institutions that facilitate such operations. Reading assignments will consist of the leading journal articles in this area. IP permissible.

**86066 Investment Theory (3)**

A study of the theory and empirical evidence from a global perspective regarding investment analysis, valuation and portfolio selection. IP permissible.

**86097 Seminar in Finance (3)**

An examination of selected current developments in the literature of finance. B AD 86098 Research in Finance (3) Research area of current interest. This structured course is designed to enable the doctoral candidate to complete an acceptable dissertation proposal in the field of finance.

**Biomedical Sciences (BMS)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**60120/70120 Laboratory Techniques in Biomedical Sciences (2)**

Minimum of two laboratory rotations per semester by arrangement with individual faculty members. May be repeated once. S/U grading. Prerequisite: special approval.

**60194/70194 College Teaching in Biomedical Sciences (1 or 2)**

Training and experience in college teaching in the biomedical sciences. Maximum of 2 hours applicable toward degree. S/U grading. Repeat registration permitted.

**60196/70196 Individual Investigation (1-3)**

Directed investigation under supervision of faculty member in biomedical sciences and with prior approval. May be repeated to maximum of 6 semester hours for letter grade. Excess of 6 hours S/U grading. IP permissible. Prerequisite: special approval.

**60198 Research (1-15)**

Research for master's-level graduate students. Credits earned may be applied toward degree requirements if department approves. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: special approval.

**60199 Thesis I (2-6)**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

**60220/70220 Human Microscopic Anatomy (5)**

Morphological basis for normal and disturbed functions; structure/function relationships in human microscopic anatomy. Lectures, special laboratory and learning techniques using human tissues. Prerequisite: BSCI 5/70517.

**60221/70221 Ultrastructure of the Cell (4)**

Functional organization of cells of the ultra-structural level; topographical and cytochemical



electron microscopical techniques. Dynamic interactions between cells and their milieu and between organelles in normal and pathological conditions. Prerequisite: approval of instructor.

**60230/70230 Principles of Electron Microscopy (4)**

Principles of electron microscopy will be presented with demonstrations of equipment and techniques as applied to biological materials. Prerequisite: special approval.

**60240/70240 Medical Microbiological Immunology (5)**

An in-depth study of eukaryotic and prokaryotic microorganisms, virology and immunology at the biochemical molecular and genetic level and their relationship to disease. Prerequisite: BSCI 30171 and CHEM 50245 or 50247.

**60251/70251 Theory and Practice of Cloning and Genetic Engineering (2)**

Recent advances in the development and understanding of genetic engineering, genomic DNA organization and gene therapy will be discussed. Prerequisite: BSCI 5/70158 and CHEM 5/70247.

**60257/70257 Research Proposal (2)**

Preparation and defense of a formal research proposal modeled after the format of the National Institutes of Health. S/U grading. Prerequisite: special approval.

**60267/70267 Molecular Pathology (2)**

Biochemical principles will be applied to explain the mechanism of human diseases in terms of defects in molecular structures and metabolic pathways. Prerequisite: CHEM 50245 or 50247.

**60268/70268 Molecular Pathology II (4)**

Biochemical principles will be applied to explain the mechanism of human diseases in terms of defects in molecular structures and metabolic pathways. Prerequisite: BMS 6/70267.

**60291/70291 Seminar in Cellular and Molecular Biology (1)**

Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**60295/70295 Special Topics in Cellular and Molecular Biology (2-5)**

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. IP permissible. . Prerequisite: special approval.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: 6 hours of BMS 60199.

**60449/70449 Medical Physiology (4)**

Biophysical and biochemical concepts of integrative organ system physiology in the human: cardiovascular, pulmonary, exercise and temperature regulation physiology. Prerequisite: BSCI 40430 and special approval.

**60450/70450 Medical Physiology (3)**

Biophysical and biochemical concepts of integrative organ system physiology in the human: renal, gastrointestinal and endocrine physiology. Controlled. Prerequisite: BSCI 40430 or equivalent, one year college physics and college chemistry (including organic) and special approval.

**60451/70451 Microcirculation (3)**

Theory and practical application of current techniques to evaluate fluid and solute exchange across the microvascular wall. Prerequisite: BSCI 5/70433 and 5/70434 or BMS 6/70449 and 6/70450 and special approval.

**60452/70452 Pulmonary Physiology (2)**

Relationship between structure and function of the lung with focus on mechanics, circulation, gas exchange, gas transport, acid/base regulation, regulation, host defense and ventilation/perfusion. Prerequisite: BSCI 5/70433 and 5/70434 or BMS 6/70449 and 6/70450.

**60461/70461 Integrative Physiology of the Cardiovascular System (2)**

Critical analysis of the integrative neurohumoral regulation of the cardiovascular system at rest and during stress. Special emphasis on peripheral and central mechanisms involved in regulation of the circulation. Prerequisite: BSCI 5/70433, 5/70434 or BMS 6/70449, 6/70450 and special approval.

**60491/70491 Seminar in Medical Physiology (1)**

Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**60495/70495 Special Topics in Medical Physiology (2-5)**

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. IP permissible. Prerequisite: special approval.

**60550/70550 Medical Pharmacology I (3)**

General principles of pharmacology including metabolism, action, interactions, side effects, toxicity and therapeutic use of drugs.

**60551/70551 Medical Pharmacology II (3)**

Continuation of BMS 6/70550. Prerequisite: BMS 6/70550.

**60557/70557 Drug Mechanisms in the Brain (3)**

The mechanisms of centrally acting drugs on brain function. The different classes of neuroactive drugs will be considered according to their effects at different levels of

central nervous system organization: structure, physiology and biochemistry/molecular biology. Prerequisite: special approval

**60558/70558 Psychoactive Drugs (3)**

The effects of pharmacological agents on the physiology and pathophysiology of the mammalian nervous system. Utilizing both classic and recent literature, basic research findings will be correlated with clinical therapeutics of specific human disease states. Prerequisite: BMS 6/70557.

**60561/70561 Neuropharmacology (3)**

The effects of various classes of pharmacological agents on the physiology and pathophysiology of the mammalian nervous system via discussion of classical and current literature. Prerequisite: special approval.

**60591/70591 Seminar in Pharmacology (1)**

Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**60595/70595 Special Topics in Pharmacology (2-5)**

Study of subject or problem of current importance. Content dependent upon student requirements and on recent developments in field. IP permissible. Prerequisite: special approval.

**60596/70596 Individual Investigation in Pharmacology (1-3)**

Experience with various laboratory techniques and procedures used in pharmacological research with application to experimental designs. IP permissible. Prerequisite: special approval.

**60710/70710 Functional Neuroanatomy (6)**

Study of structure and function of mammalian nervous system with emphasis on human brain and

human behavior. Five hours of lecture three hours of laboratory and recitation weekly. Prerequisite: special approval.

**60711/70711 Developmental and Evolutionary Neurobiology (3)**

Experimental studies of the development and evolution of the vertebrate central nervous system. Prerequisite: BMS 6/70710 and special approval.

**60729/70729 Cell/ Molecular Neuroscience (4)**

The relation of aspects of the neurosciences to the fundamental properties of nervous tissue, establishing a firm base in experimental Neurobiology. Lecture, discussion and laboratory. Prerequisite: BMS 6/70710 and approval of instructor.

**60791/70791 Seminar in Neurobiology (1)**

Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**60795/70795 Special Topics in Neurobiology (2-3)**

Study of problems of current importance. Content dependent on student requirements and on developments in field. IP permissible. Prerequisite: special approval.

**68610/78610 Human Gross Anatomy I (4)**

An intensive survey of human macromorphology. Lecture 2 hours, laboratory 6 hours weekly. Prerequisite: special approval.

**68611/78611 Human Gross Anatomy II (3)**

An intensive survey of human macromorphology; a 10-week course that continues BMS 6/78610. Lecture 2 hours, laboratory 6 hours weekly. Prerequisite: BMS 6/78610.

**78612 Primate Anatomy (5)**

Lecture and laboratory dissection of primate cadaver from major taxonomic groups of the order primates. Emphasis on

musculoskeletal and nervous systems. Prerequisite: special approval.

**78613 Pleistocene Hominid Morphology (3)**

An intensive examination of fossil hominids of the Plio-Pleistocene. Prerequisite: special approval.

**78621 Paleodemography and Osteology (3)**

An examination of the methods and theory of the use of prehistoric human remains in the reconstruction of extinct populations. Prerequisite: special approval.

**78622 Human Population Structure and Biological Demography (3)**

An intensive investigation of the principles of biological demography; includes emphasis on theories of selection and mating structure. Prerequisite: special approval.

**78623 Human Variation (3)**

A detailed anthropological examination of the causes and extent of modern human variability. Prerequisite: special approval.

**78624 Primate Ethology (3)**

Detailed examination of the principles of primate ethology, including evolutionary trends in ecology, dominance, locomotion and social behavior. Prerequisite: special approval.

**78625 Dental Anthropology (3)**

Study of the human and primate dentition as it relates to primate and human evolution. Includes general orofacial biology. Prerequisite: special approval.

**78626 Primate Paleontology (3)**

Survey of primate evolution and taxonomy up to the emergence of modern hominids. Prerequisite: special approval.

**78630 Principles of Biological Anthropology (3)**

Graduate-level introduction to the field of biological anthropology. Topics include genetics, human variation, fossil and modern

primates and early man.  
Prerequisite: special approval.

**78631 Skeletal Biomechanics I: Statics (5)**

Fundamentals of statics and their application to biological structures; emphasis on solution of statics problems of increasing difficulty. Applications to bones and joints of primates.

**78632 Skeletal Biomechanics II: Dynamics (3)**

Continuation of Biomechanics I. Introduction to kinematics and kinetics with application to human and primate locomotion. Computer analysis of bone strength.  
Prerequisite: BMS 78631.

**78637 Bioanthropological Data Analysis I (5)**

(Cross-listed with ANTH 68637)  
Examination of methods of univariate and bivariate experimental design. This survey emphasizes tests of hypothesis and estimation techniques with both classical and nonparametric procedures.

**78638 Bioanthropological Data Analysis II (3)**

(Cross-listed with ANTH 68638)  
This survey of multivariate analysis in anthropology includes one-sample data exploration, multiple-sample problems and regression methods. It also includes computer applications. Prerequisite: BMS 78637.

**78691 Seminar in Biological Anthropology (1)**

Credits may be applied toward degree if department approves. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**78692 Field Work in Paleoanthropology (1-5)**

Excavation and/or field survey of Miocene and/or Plio-Pleistocene hominid localities. Prerequisite: special approval.

**78695 Special Topics in Biological Anthropology (2-5)**

Study of subject or problem of current importance. Content

dependent upon student requirements and on recent developments in field. IP permissible. Prerequisite: special approval.

**80198 Research (1-15)**

Research for doctoral students who have not yet passed candidacy examination. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: special approval.

**80199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. Students must successfully complete the doctoral exam before taking this course. S/U grading; IP permissible. Prerequisite: special approval.

**80299 Dissertation II (1 or 15)**

Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: 30 hours of BMS 80199.

**Graduate Biological Sciences (BSCI)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50020 Biology of Aging (3)**

Aging in cells, plants and animals, including humans; maintaining human health during aging; current

theories of aging. Lecture 3 hours weekly. Prerequisite: BSCI 20020 and CHEM 10050 and 10052.

**50142/70142 Bioenergetics (3)**

Lecture and discussion of respiration and photosynthesis, their origin, development and control in living systems. Concepts are introduced from fundamental principles. Lecture 3 hours weekly. Prerequisite: BSCI 40430.

**50143/70143 Eukaryotic Cell Biology (3)**

Current survey of the structure and function of eukaryotic cells, including recent advances in research technology. Lecture 3 hours weekly. Prerequisite: BSCI 40430.

**50146/70146 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.

**50150/70150 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.

**50158/70158 Molecular Biology (3)**

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

**50159/70159 Molecular Biology Laboratory (2)**

Experience in research methods for studying cellular and molecular processes in plant and animal systems. Laboratory 6 hours weekly. Prerequisite: BSCI 30140;

BSCI 40143 or 40158; CHEM 20481 or 30481; CHEM 30475. Special fee: \$50 per semester (subject to change).

**50160/70160 Marine Biology (3)**  
Natural history and ecology of marine organisms, with emphasis on life in coastal habitats. Lecture 3 hours weekly. Prerequisite: BSCI 30560.

**50162/70162 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.

**50163/70163 Organic Evolution (3)**  
Discussion of the history of evolutionary theory, the evidence of evolution, the evolutionary forces and the products of those forces. Prerequisite: BSCI 30156 plus 4 hours of biology.

**50164/70164 Molecular Systematics and Phylogenetics (4)**  
Modern methods used in systematics, DNA sequencing, DNA fingerprinting, phylogenetic analysis and interpretation of character evolution. Lecture 3 hours, laboratory 3 hours weekly. Prerequisite: BSCI 40163.

**50165/70165 History of Biology (2)**  
Historical development of biology from antiquity to the present. Lecture 2 hours weekly. Prerequisite: BSCI 10181 and 10182.

**50170/70170 Stream Biology (3)**  
Identification, biology and ecology of stream-inhabiting organisms. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181 and 10182.

**50174/70174 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. Lecture 3 hours weekly. Prerequisite: BSCI 30171 and CHEM 10060, 10061 and 10062.

**50193/70193 Variable Title Workshop in Biological Sciences (1-6)**

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

**50195/70195 Special Topics in Biology (1-3)**  
IP permissible. Prerequisite: Special approval of instructor.

**50196/70196 Individual Investigation (1-3)**  
IP permissible. Prerequisite: approval of instructor.

**50269/70269 Biology of the Algae (4)**  
Morphology, ecology and systematics of freshwater and marine algae. Lecture 3 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181, 10182, plus 10 hours of biology. Special fee: \$28 per semester.

**50272/70272 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. Lecture 2 hours, laboratory 6 hours weekly. Prerequisite: BSCI 10181 and 10182.

**50275/70275 Systematic Botany (4)**  
Biosystematics, angiosperm phylogeny, survey of some major families of dicotyledons. Lecture 3 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181 and 10182.

**50277/70277 Morphology of Lower Plants (4)**  
Nonvascular plants, emphasizing structure, reproduction, evolution, fossil history, economic, ecological

and medical importance. Lecture 3 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181 and 10182.

**50360/70360 Ichthyology (4)**  
Basic biology, natural history, behavior and ecology of the fishes. Three hour lecture and three hour lab weekly.

**50363/70363 Microbial Ecology (3)**  
Microbial interactions with their biotic and abiotic environment; control of distribution and physiological activities; emphasis on bacteria in aquatic systems. Prerequisite: BSCI 30171 and 30360.

**50364/70364 Limnology (4)**  
Field and laboratory study of the principles of aquatic ecology. Recitation 1 hour, lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 30360. Special fee: \$40 per semester.

**50367/70367 Limnological Techniques (2)**  
Analysis and significance of ecologically important variables and constituents of surface waters. Lecture 1 hour, laboratory 4 weekly. Prerequisite: BSCI 5/70364.

**50368/70368 Wetland Ecology and Management (4)**  
Lecture, laboratory and field study of the principles of wetland ecology including adaptations of the biota to environmental conditions, comparison among different wetland habitat types and habitat management. Lecture 3 hours, laboratory 3 hours weekly. Special fee \$10 per credit hour (subject to change).

**50369/70369 Lake Management (3)**  
Lecture/discussion related to management of lakes and reservoirs, emphasizing eutrophication problems. Current literature and problem-solving techniques emphasized. Lecture 3 hours weekly. Prerequisite: BSCI 5/70364.

**50372/70372 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. Prerequisite: BSCI 30360 or 40163.

**50374/70374 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. Lecture 4 hours weekly. Prerequisite: BSCI 30360.

**50376/70376 Topical 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

**50432/70432 Endocrinology (3)**

Principles of endocrine regulation of physiological and metabolic processes. Morphological and functional interrelationships between systems. Lecture 3 hours weekly. Prerequisite: BSCI 40430.

**50433/70433 Mammalian Physiology I (3)**

The internal environment, metabolism and energy balance, temperature regulation, nervous system and special senses. Lecture 3 hours weekly. Prerequisite: BSCI 40430; 9 hours mathematics; 20 hours chemistry.

**50434/70434 Mammalian Physiology II (3)**

Physiology of cardiovascular, renal, respiratory and digestive systems. Lecture 3 hours weekly. Prerequisite: BSCI 40430; 9 hours mathematics; 20 hours chemistry.

**50435/70435 Reproductive Physiology of Mammals (3)**

Current concepts of reproductive processes based on studies with laboratory and domestic animals and man. Lecture 3 hours weekly. Prerequisite: BSCI 40430 and 40432.

**50439/70439 Environmental Physiology (4)**

Effects of heat, cold, oxygen, carbon dioxide, pressure, radiant energy, salt and water variations, and other environmental factors on organisms. Lecture 4 hours weekly. Prerequisite: BSCI 10181 and 10182; CHEM 10060 and 10061 and 10062.

**50444/70444 Mammalian Physiology Lab I (1)**

Laboratory experimentation emphasizing physiological principles covered in BSCI 5/70433. Corequisite: BSCI 5/70433. Special fee: \$40 per semester.

**50445/70445 Mammalian Physiology Lab II (1)**

Laboratory experimentation emphasizing physiological principles covered in BSCI 5/70434. Corequisite: BSCI 5/70434. Special fee: \$40 per semester.

**50515/70515 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.

**50517/70517 Histology (3)**

Study of the microscopic and submicroscopic structure of the mammalian body in relation to function. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 10181 and 10182; and 4 hours of biology.

**50525/70525 Wildlife Resources (3)**

Ecological parameters are discussed relative to the preservation and management of wild animal populations. Aesthetic, economic and environmental values are discussed. Lecture 3 hours weekly.

Prerequisite: BSCI 10181 and 10182; and 4 hours of biology.

**50556/70556 Vertebrate Zoology (4)**

Field approach to identification and natural history of all Ohio vertebrates except birds. Lecture 3 hours, laboratory and field 3 hours weekly. Prerequisite: BSCI 10181 and 10182; and 4 hours of biology.

**60080 Experimental Methods in Biology (2)**

The development of hypotheses, principles of experimental design, and methods of gathering and evaluating data. Prerequisite: approval of instructor.

**60100/70100 Radiation Safety (1)**

A rigorous basis for the detection and safe handling of unsealed radioisotopic material in research and the effects of radiation on human health is presented. Prerequisite: approval of instructor.

**60103/70103 Biological Statistics (3)**

Principles of experimental design and statistical analysis, and how to choose and interpret statistical tests using biological data sets.

**60144/70144 Selected Readings in Eukaryotic Cell Biology (1)**

Directed readings in cell and molecular biology from the primary and review literature will be presented and discussed by the students. Corequisite: BSCI 5/70143.

**60191/70191 Seminar in Biology (1)**

Departmental seminar required of all graduate students. S/U grading; IP permissible.

**60194/70194 College Teaching in Biology (1)**

Training and experience in college teaching of biology. Maximum of 2 hours applicable toward degree. Repeat registration permitted. Required in all degree programs. S/U grading; IP permissible. Prerequisite: approval of instructor.

**60198 Research, Thesis and Dissertation Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned may be applied toward degree requirements if department approves. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: special approval

**60199 Thesis I (2-6)**

Thesis students must register for a minimum of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: BSCI 60199

**60265/70265 Plant Metabolism (3)**

An advanced study of absorption, transpiration, translocation, mineral nutrition, photosynthesis, respiration, nitrogen metabolism and other biochemical processes in plant cells. Lecture 3 hours weekly. Prerequisite: BSCI 30267.

**60266/70266 Plant Growth and Development (3)**

An advanced study of the phytohormones, light, temperature, gravity, etc., and their effect on dormancy, germination, tropisms, cellular expansion, flowering and senescence. Lecture 3 hours weekly. Prerequisite: BSCI 30267.

**60291/70291 Seminar in Botany (1)**

Seminar on botanical topics. May be repeated for credit. Credits earned may be applied toward degree if department approves. S/U grading; IP permissible. Prerequisite: approval of instructor.

**60365/80365 Experimental Limnology (3)**

Methods and selected literature in experimental aquatic ecology will be reviewed. An experiment will be designed and carried out. Lecture-recitation 2 hours, laboratory 3

hours weekly. Prerequisite: BSCI 5/70364.

**60367/80367 Dynamics of Aquatic Communities (3)**

Interpretation and simulation of the structure and dynamics of algal communities within lakes and streams. Discussion of the structure and dynamic interrelationships of the components of aquatic ecosystems. Lecture 2 hours, laboratory 3 hours weekly. Prerequisite: BSCI 4/5/70269.

**60370/70370 Ecological Genetics (2)**

Dynamics of genes in diploid populations and consequent interactions with and effects on components of the ecosystem, with examples. Prerequisite: BSCI 30156, 30360, 40162.

**60371/70371 Evolutionary Ecology (2)**

An application of the theory of natural selection to the evolution of population and community phenomena. Prerequisite: BSCI 30360.

**60391/70391 Seminar in Ecology (1)**

Seminar on topics in animal and plant ecology. May be repeated for credit. Credits earned may be applied to degree if department approves. S/U grading; IP permissible. Prerequisite: approval of instructor.

**60431/70431 Neuroendocrinology (2)**

Role of the central nervous system in the regulation of hormonal and vegetative functions; structure function relationships between brain and pituitary with modern views of neuroendocrine regulation. Methods for study of neuroendocrine relationships will be discussed. Prerequisite: BSCI 5/70432.

**60438/70438 Comparative Physiology (4)**

Comparative physiology of regulatory mechanisms (biochemistry, nervous, hormonal, etc.); such areas as neurophysiology, sensory

adaptations, biological rhythms, circulatory systems, movement and locomotion, buoyancy. Prerequisite: BSCI 10181 and 10182; CHEM 10060 and 60061 and 60062 and 60063.

**60440/70440 Cellular and Molecular Endocrinology (3)**

Analysis of current hypotheses concerning the mechanisms by which hormones control cellular metabolism and gene expression. Prerequisite: BSCI 4/5/70432.

**60446 Advanced Human Physiology (3)**

Physiological mechanisms of human health and disease with and emphasis on integrative physiology. Lecture 3 hours weekly. Prerequisite: approval of department.

**60461/70461 Neurochemistry (2)**

Basic biochemistry of the mammalian nervous system, including myelin structure and metabolism, stimulus-secretion coupling, neurotransmitter and eicosanoid metabolism, energy utilization and the biochemistry of nervous disorders. Prerequisite: CHEM 5/70247.

**60462/80462 Neurobiology: Systems and Behavior (3)**

Provides broad coverage of the parts of the central nervous systems and how they integrate sensory information, drive motor function and regulate behavior.

**60491/70491 Seminar in Physiology (1)**

May be repeated for credit. Credits may be applied toward degree if department approves. S/U grading; IP permissible. Prerequisite: approval of instructor.

**60495/70495 Special Topics in Physiology (2 or 3)**

Study of problems of current importance. Content dependent on student requirements and on developments in field. IP permissible. Prerequisite: approval of instructor.

**60580/70580 Advanced Entomology (3)**

Advanced studies in taxonomy, ecology, biology, physiology, morphology and control of insects. Prerequisite: BSCI 30580.

**80150 Biological Instrumentation (2)**

Biological instrumentation and techniques. By arrangement. IP permissible. Prerequisite: approval of instructor.

**80198 Research (1-15)**

Research or individual investigation for doctoral students who have not yet passed candidacy examination. Repeat registration permitted. S/U grading; IP permissible.

**80199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: special approval.

**80240 Advanced Topics in Botany (2)**

Lectures and/or laboratories in advanced areas of botany. By arrangement. IP permissible. Prerequisite: approval of instructor.

**80241 Advanced Topics in Botany (3)**

Lectures and/or laboratories in advanced areas of botany. By arrangement. IP permissible. Prerequisite: approval of instructor.

**80299 Dissertation II (1 or 15)**

Continuing registration of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: BSCI 80199.

**80310 Advanced Topics in Ecology (2)**

Lectures and/or laboratories in advanced areas in ecology. IP permissible. By arrangement. Prerequisite: approval of instructor.

**80311 Advanced Topics in Ecology (3)**

Lectures and/or laboratories in advanced areas in ecology. IP permissible. By arrangement. Prerequisite: approval of instructor.

**80430 Advanced Topics in Physiology (2)**

Analysis and solution of problems in contemporary physiology. By arrangement. IP permissible. Prerequisite: approval of instructor.

**80431 Advanced Topics in Physiology (3)**

Analysis and solution of problems in contemporary physiology. By arrangement. IP permissible. Prerequisite: approval of instructor.

**Graduate Biostatistics (BST)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50196 Individual Investigation in Biostatistics (1-3)**

Individual graduate investigation or research in areas related to biostatistics. Repeat registration permitted for a maximum of 6 credit hours. IP permissible. Prerequisite: special approval

**52019 Biostatistics in Public Health (3)**

Provides students with an understanding of basic statistical methods in public health research, as well as the skills to perform and interpret basic statistical procedures. Students learn how to use statistical analysis software to analyze real data from public health-related studies. They then learn how to

interpret the analysis and present the results to public health professionals and educated lay audiences.

**63012/83012 Survival Analysis in Public Health (3)**

Introductory course in survival analysis for graduate student in public health. Covers survival functions, hazard rates, types of censoring and truncation. Methods of focus include life tables, Kaplan-Meier plots, log-rank tests, Cox regression models and parametric survival models. Inference for recurrent event and competing risks models are also covered.

**63013/83013 Experimental Designs in Public Health Research (3)**

Introduces students to experimental research methods, in public health settings. The course first introduces a number of quasi-experimental and experimental study designs, then identifies a number of statistical methods that can be used to draw correct causal inferences from the study. Students are expected to develop two research proposals, first using quasi-experimental then an experimental design and develop a statistical analysis plan for each study. Prerequisite: BST 52019.

**63014/83014 Applied Regression Analysis of Public Health Data (3)**

Focuses on developing student proficiency in building and evaluating various regression models for public health studies. Topics covered include exploratory and descriptive methods, simple and multiple linear regression models, predictor selection, binary and multinomial logistic regression models, survival analysis, repeated measures and generalized linear models. Prerequisite: BST 52019

**63015 Categorical Data Analysis of Public Health Data (3)**

Provides an applied introduction to the most important methods for analyzing categorical data in public health. Topics covered include contingency tables, logistic regression, generalized linear models, modeling matched pairs and clustered



responses. Prerequisites: BST 52019 and EPI 52017.

### **73010 Qualitative Methods for Public Health Research (3)**

Surveys major methods of qualitative research and explores issues and applications in public health, including integrating qualitative and quantitative methods. Approaches examined include: Ethnography; grounded theory; phenomenology; focus groups; narrative analysis; and Photovoice. Community-Based Participatory Research is explored as an approach for conducting qualitative research in Public Health.

### **73011 Multivariate Analysis in Public Health (3)**

Multivariate statistical methods are designed to evaluate more than one variable at a time. An application-oriented introduction to essential multivariate statistical methods used in public health. Topics covered include matrix theory, data screening and preliminary analyses, multivariate normal distributions, multivariate versions of the general linear model (MANOVA, multivariate multiple regression, MANCOVA), discrimination and classification, canonical correlation analysis, and methods of analyzing covariance and correlation structures (principal components and factor analysis). Also introduces and explores methods of handling missing data. Prerequisite: BST 52019.

## **Graduate College of Communication and Information**

### **Interdisciplinary (CCI)**

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Graduate College of Communication and Information Interdisciplinary (CCI)

The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum

prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.

### **50095 Special Topics in Communication and Information (1-3)**

Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

### **60001/80001 Introduction to Research in Communication and Information (3)**

Overview of the process of engaging in empirical research in communication and information: defining the problem, conceptualizing key components, choosing a research method, analyzing results and reporting conclusions.

### **60095/80095 Special Topics in Communication and Information (1-3)**

Interdisciplinary and/or collaborative learning experiences in areas not covered by traditional coursework.

### **80000 Foundations of Communication and Information Inquiry (3)**

Introduction to epistemological foundations of the CCI disciplines, theory construction and academic writing for the CCI PhD.

### **80094 College Teaching Communication and Information (3)**

Training and investigation of best practices for collegiate instruction: course development, classroom performance, evaluation and reflection, introduction to instructional research.

### **80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: special approval.

### **80299 Dissertation II (1 or 15)**

Continued research and writing of the doctoral dissertation. S/U grading; IP permissible. Prerequisite: CCI 80199.

### **85098 Research in Communication and Information (1-15)**

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if doctoral supervisory committee and CCI College Doctoral Program Policy Committee approve. S/U grading; IP permissible. Prerequisite: special approval.

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

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Graduate Counseling and Human Development Services (CHDS)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

### **50093/70093 Variable Title Workshop in Counseling and Human Development Services (1-4)**

Workshops and training laboratories



in various aspects of counseling, guidance and personnel services for counselors, supervisors, administrators and paraprofessionals. Prospective enrollees not currently admitted to graduate school may obtain special admission for graduate credit in a workshop. Topics are announced in brochures of College of Continuing Studies. Limit of 6 hours with advisor's permission toward any degree program. S/U grading; IP permissible. May be repeated.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CHDS 60199.

**64084/74084 Behavioral Science in the Health Professions (1-3)**

Behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged. IP permissible.

**67530/77530 Introduction to Counseling (3)**

A survey of counseling practice that examines the nature of counseling processes and relationships as described from major theoretical perspectives.

**67531/77531 Individual Counseling Procedures (3)**

Didactic and experiential training in basic interviewing and counseling techniques prepares the student for practicum through role playing, videotaped feedback and simulation.

**67571/87571 Advanced Individual Counseling Practicum (3)**

Supervised experience in counseling. Students meet for individual supervision and in seminar groups to assess their effectiveness in helping relationships. May be repeated. Prerequisite: Minimum grade of B- (2.7) in CHDS 6/88166 and grade of S in CHDS 6/77636 and 6/77637.

**67580/77580 Multicultural Counseling (3)**

Seminar focused on information and sensitivities needed to work effectively with the culturally different. Consideration given to such issues as racism and cultural, institutional and political oppression.

**67591/77591 Seminar in Counseling and Human Development Services (1-3)**

Variable topic seminars considering problems, research and current practices for counselors and personnel workers. Topic to be announced in Schedule of Classes booklet. Prerequisite: special approval.

**67595/87595 Special Topics in Counseling and Human Development Services (1-3)**

Presentation of topics of special interest to students in counseling and human development services. Offered irregularly. Topics will be announced in Schedule of Classes booklet. Prerequisite: special approval.

**67596/87596 Individual Investigation in Counseling and Human Development Services (1-3)**

Student investigates one or more topics in counseling under supervision. Review selected literature beyond normal course coverage. Arrangements with instructor must be made prior to

registration. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: special approval.

**67628/77628 Diagnosis in Counseling (3)**

To develop diagnostic skills in interviewing and use of appropriate nosology in counseling diagnosis. Prerequisite: special approval.

**67636/77636 Practicum I: Clinical Mental Health Counseling (3)**

Students begin supervised practice of counseling with clients, primarily in the Counseling and Human Development Center. Individual supervision and seminar discussion are used for the development of counseling skills, strategies and professional role. S/U grading; IP permissible. Prerequisites: minimum B- (2.7) grade in CHDS 67530 and 67531 and 67663 and 67820 and 68126 and 68182; and clinical mental health counseling (CCON) major.

**67637/77637 Practicum II: Clinical Mental Health Counseling (3)**

This involves individual counseling and group work with appropriate populations. Caseload geared toward preparation for internship. May be repeated. Open to admitted community counseling students only. S/U grading; IP permissible. Prerequisite: CHDS 67636 with a grade of S; CHDS 6/77628 with a grade of B- or higher. Special fee: \$10 per credit hour.

**67663/77663 Orientation to Clinical Mental Health Counseling (3)**

Attention is given to the identity, professional standards and organizations, and employment settings of the clinical mental health counselor. Models of problem definition, administrative structure and service delivery are explored.

**67664/77664 Theories and Practices in Addictions Counseling (3)**

Introduction to theories, models and practices in addictions counseling, with emphasis on research supported approaches and ethical standards.

**67665/77665 Treatment Planning in Addictions Counseling (3)**

Assessment and diagnosis of substance use disorders, and determining appropriate care levels, treatment goals and interventions. Prerequisite: CHDS 6/77664.

**67695/77695 Special Topics in Clinical Mental Health Counseling (1-3)**

Presentations of special interest to students. Offered irregularly. Topics will be announced in Schedule of Classes. Prerequisite: special approval.

**67698/77698 Individual Research in Clinical Mental Health Counseling (1-9)**

Student pursues research project on selected aspect of clinical mental health counseling under supervision of instructor. Arrangements with instructor must be made prior to registration. Repeat registration permitted. Prerequisite: special approval.

**67810/77810 Group Process and Analysis (3)**

Experiential/didactic study of group dynamics to gain familiarity with group dynamics research and application with an emphasis on task groups.

**67815/77815 Laboratory in Interpersonal Encounter (1)**

A personal growth experience emphasizing openness and awareness, while developing skills in building human relationships in small groups. S/U grading; IP permissible.

**67820/77820 Group Work: Theory and Techniques (3)**

Didactic and experiential training in how to facilitate personal and interpersonal development in small groups, including group guidance, structured theme counseling and growth groups.

**67836/77836 Small Group Practicum (3)**

Supervised practice in conducting small groups for counseling, personal growth purposes. Both structured and unstructured group experiences are included. S/U grading; IP permissible. Prerequisite: CHDS 6/77820. Special fee: \$30 per semester.

**67840/77840 Theories and Methodology of Organization Development (3)**

Study of theorists/practitioners in organization development. Involves exploration of consultant role, intervention theory and methods of systems change applied to groups and organizations. Prerequisite: Three of the following: CHDS 6/77810, 6/77835, 77838 and 6/77839.

**67858/77858 Seminar: Group Counseling (2)**

Study and experience of various theoretical and methodological and practical approaches to group counseling. Includes experience as counselor and participant in peer counseling group. Prerequisite: Special approval.

**68000/78000 Guidance of "At Risk" Youth (3)**

Counselors will be provided information that helps them identify individual(s) with highest potential for "at riskness," understand the causal factors for "at riskness," and recognize the behaviors that place individuals "at risk." Prerequisite: CHDS 6/78068.

**68011/78011 Foundations of School Counseling (3)**

Foundation course in school counseling. Focuses on the professional identity of school counselors and other pupil service personnel, and on the development of comprehensive school counseling programs.

**68036/78036 School Counseling Practicum (4)\***

Supervised counseling practice in the Counseling and Human Development Center and/or in the schools. Engage in counseling with children, teachers and colleagues. Direct observation and audio-video recording and supervisory critiques used for counseling skills. S/U grading; IP permissible. Prerequisite: CHDS 6/77530, 6/77531, 6/77820, 6/78069 and special approval. Special fee: \$30 per semester (subject to change).

**68060/78060 Professional Seminar in School Counseling (3)**

Development and identity of school counseling, with special emphasis on role, current issues and ethics. Prerequisite: restricted to students in school counseling program.

**68066/78066 Counseling Adolescents (3)**

A didactic and experiential seminar focusing on adolescents frequently referred to counselors. Counseling procedures, treatment plans, and referral procedures for youth will be covered. Prerequisite: Minimum grade of B- (2.7) in CHDS 6/77530 and 6/77531.

**68067/78067 Counseling Children (3)**

Seminar focusing on intra- and interpersonal dynamics of children referred for treatment to counselors. Designed to supplement individual and group counseling skills with play, media. Prerequisite: CHDS 6/77530 and 6/77531.

**68068/78068 School Counseling Program Management and Leadership (3)**

Focuses on the management, leadership, and implementation of comprehensive school counseling program including developmental counseling approaches, management systems, and outcome research. Prerequisite: Minimum grade of B- (2.7) in CHDS 6/78011.

**68069/78069 Orientation to School Counseling (3)**

Consideration given to issues that provide an orientation to school counseling. Examples of these issues include professional preparation standards, roles and functions of school counselors, and ethical standards and legal issues.

**68095/78095 Special Topics in School Counseling (1-3)**

Presentations of special interest to students. Offered irregularly. Topics will be announced in Schedule of Classes. Prerequisite: special approval.

**68098/78098 Individual Research in School Counseling (1-9)**

Student pursues research project on a selected aspect of school counseling under the supervision of instructor. Arrangements with instructor must be made prior to registration. Credit hours and course level to be fixed at registration time. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**68126/78126 Principles of Measurement of Appraisal (3)**

Instruction and experience in utilizing observational, measurement and appraisal methods and instruments relevant to clinical mental health counseling and school counseling settings. Measurement theory and concepts related to the appraisal process are presented.

**68128/78128 Individual Appraisal in Counseling (3)**

A laboratory experience in selecting, administering, and interpreting measures of personality and motivation. Primary attention will be placed on measures of psychopathology. Prerequisite: Minimum grade of B- (2.7) in CHDS 68126 or 78126 and CHDS 67628 or 77628.

**68130/78130 Psychopathology for Counselors (3)**

This course covers the etiology and treatment of various disorders covered in the current DSM System. Assessment, treatment and psychopharmacological aspects of treatment are considered. Prerequisite: Minimum grade of B- (2.7) in CHDS 6/77628.

**68165/78165 Career Counseling (3)**

An analysis of the major approaches to career counseling, including use of diagnosis, test interpretation and occupational information. Prerequisite: 6/78182.

**68167/88167 Advanced Counseling Procedures (3)**

Development of understanding of more in-depth and complex counseling processes, case conceptualization and treatment planning, and advanced skills for intervention. Didactic and role-playing methods will be used. Prerequisite: Minimum grade of B- (2.7) in CHDS 67628 or 77628 and grade of S in CHDS 67636 or 77636.

**68168/88168 Advanced Counseling Theories (3)**

Consideration in depth of major counseling theories, with special emphasis on comparative analysis. Original readings used. Prerequisite: Grade of S in CHDS 6/77636.

**68181/78181 Gestalt Therapy (3)**

Introductory course on theory and techniques of Gestalt Therapy.

**68182/78182 Career Development and Guidance (3)**

The world of work, theories of career choice, techniques in career guidance. An introductory course in the career area for practitioners in education, helping services, human resources and personnel.

**68284/88284 Supervision of Counseling (3)**

This seminar focuses on supervisory processes in terms of theoretical perspectives and practices of supervision. Reviews relevant literature related to the roles, functions and settings of clinical supervisor. Includes supervisory experiences. Prerequisite: Grade of S in CHDS 6/77637; and 77692.

**68525/78525 Introduction to Family Therapy (3)**

Overview of families and family therapy highlighting systems theory, and issues of therapy related to family life cycle, family ethnicity, family processes, the professional and identity of family therapists and the discovery of personal assumptions about families.

**68529/78529 Couples Therapy: Theory and Techniques(3)**

Study of selected couples therapy theories. Focus on concepts and techniques and their application in the therapeutic setting.

**68531/78531 Pre-Practicum: Marriage and Family Therapy Techniques (3)**

Focuses on gaining and integrating observational, conceptual and therapeutic skills of family therapy in a "learning by doing" atmosphere. Utilizing videotape, simulation and initial interviewing of families, students will acquire basic family therapy skills. IP

permissible. Prerequisite: CHDS 6/78529 and 6/78533.

**68533/78533 Family Therapy: Theory and Techniques (3)**

Explores systemic family therapy utilizing various philosophical orientations, theoretical concepts and techniques in a didactic, experiential and applied atmosphere.

**68535/78535 Assessment and Research in Marriage and Family Therapy (3)**

Utilization of assessment skills, techniques and instruments relevant to the practice of marriage and family therapy will be focused upon. Critical judgment regarding research design and findings will be emphasized. Special fee: \$15 per semester.

**68536/78536 Practicum in Couples and Family Therapy (3)**

An intensive-extensive supervised experience in the practice of couples and family therapy. Live video and audio supervisory processes will be utilized to assist with skill development. Prerequisite: CHDS 6/78529 and 6/78533 and/or special approval. Special fee: \$30 per semester.

**68538/78538 Advanced Multicultural Counseling (3)**

This course is designed to assist helping professionals in enhancing the knowledge and skill components of multicultural counseling. Cultural and multicultural counseling experiences with constructive feedback are provided. Prerequisite: CHDS 6/77531 and 6/77580.

**68591/78591 Seminar: Marriage and Family (3)**

Focuses on issues of concern to the marriage and family therapist: family violence, sexuality, divorce, blended families, chronic illness, etc. Relevance to issues raised in

practicum will be stressed.

**77584 Writing for Professional Publications (3)**

Seminar experience designed to prepare professionals to publish research findings, conceptualizations and professional field experiences in refereed journals and books. Elements of grant writing also treated.

**77792 Internship I: Clinical Mental Health Counseling (3)**

Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders. Prerequisite: clinical mental health counseling (CMHC) major; and special approval.

**77838 Planning and Implementing Organizational Change (3)**

An introduction to basic conceptions of schools and human service organizations as complex organizations and to frameworks useful in conceptualizing organizational change.

**77892 Internship II: Clinical Mental Health Counseling (3)**

Assignment to a mental health agency, private practice, etc. for extensive and intensive applications of clinical mental health counseling. The scope of practice for this internship is diagnosis and treatment of mental and emotional disorders. Prerequisite: clinical mental health counseling (CMHC) major; and special approval.

**78192 Internship I: School Counseling (3)**

Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the implementation of

advocacy, leadership, collaboration, and systemic change is highlighted. This course meets specific CACREP standards. Prerequisite: special approval.

**78292 Internship II: School Counseling (3)**

Assignment to a school for extensive and intensive applications appropriate for school counseling. A focus on the application of advocacy, leadership, collaboration and systemic change are highlighted in this course. This course meets specific CACREP standards.

**80090 Doctoral Residency Seminar in Counseling and Human Development Services (3)**

Focus on professional identity, current issues and trends, and involvement in professional activities. Restricted to students admitted to doctoral program in CHDS. S/U grading; IP permissible.

**80199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CHDS 80199.

**87871 Advanced Practicum in Small Group Work (4)**

Supervised experience in group counseling, training, facilitation and/or leadership in field setting or guidance bureau. Students meet in small groups to assess their work, obtain feedback from observers and integrate these learnings into better

facilitative behavior. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: CHDS 6/77836. Special fee: \$30 per semester.

**88180 Research in Counseling Process and Outcome (3)**

Review of classic and current studies in counseling process and outcome, research trends and issues, design strategies and assessment procedures. Focus is on thorough understanding, critique skills and synthesis. Prerequisite: special approval.

**88281 Research Seminar in Counseling and Human Development Services (3)**

Topics or problems of current concern in counseling and human development services. Review of significant studies, design strategies, instrumentation, data analysis and research issues. Topic to be announced in Schedule of Classes booklet. May be repeated. Prerequisite: EVAL 65510 and 65511 and 78716 and 78898.

**88285 Practicum in Counselor Supervision (2)**

Supervision of students in introductory practica provides learning activity to implement supervisory approach. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: CHDS 88284.

**88286 Development of Counselor Education Programs (3)**

Review of the planning, implementation and evaluation process in counselor education curricula. Skill development is fostered by simulation, case study and discussion of program design and review. Prerequisite: Students admitted to doctoral program in counseling and human development services.

**88292 Internship in Counseling and Human Development Services (3-6)\***

Professional service in field setting appropriate for counseling, consulting and personnel work, under supervision. May be repeated. Completion of program course requirements is necessary prior to registration. Prerequisite: special approval.

**88294 College Teaching in Counseling and Human Development Services (3)**

Application of planning, instructional and evaluation skills. Doctoral students lead skill-training groups, lecture a large class and guide group discussion with faculty supervision. Arrangements for this experience to be made before semester begins. Prerequisite: CHDS 88286.

**88298 Individual Research in Counseling and Human Development Services (1-3)**

Individual research on selected aspect of counseling and human development services under supervision of instructor. Arrangements with instructor must be made prior to registration. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**88584 Marriage and Family Supervision/Consultation (3)**

Focus placed on epistemologic articulation of one's therapeutic and training approach and development of conceptualization and intervention skills of supervision. Prerequisite: CHDS 6/78536. Special fee: \$30 per semester.

**Graduate Chemistry (CHEM)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*Graduate students in chemistry may not use the following courses to fulfill degree requirements: 5/70000, 5/70093, 5/70361, 5/70362, 5/70481, 5/70555, 5/70556, 5/70557, 5/70558, 5/70570 and 50795.*

*Non-chemistry majors may take any of these courses for credit with the permission of their major department and the Department of Chemistry and Biochemistry.*

**50000/70000 Chemical Information (2)**

Access to chemical documents using indexes, formulating search strategies, citation mapping and manipulation of computer files are treated via lectures, readings and library problems. Prerequisite: CHEM 30482.

**50093/70093 Variable Title Workshop in Chemistry (1-6)**

S/U grading. Prerequisite: special approval.

**50109/70109 Bioanalytical Chemistry (3)**

Covers traditional as well as newly emerging topics in the field of bioanalytical chemistry. Provides and overview of the fundamental biological targets for bioanalytical assays, such as lipids, peptides, proteins, nucleic acids and cells. Briefly introduces traditional tools, such as chromatography, electrophoresis, mass spectrometry, fluorescence techniques, immunoassays, and biosensors. Discusses approaches most recently developed in the field, which later include lab-on-a-chip and single

molecule techniques. Prerequisite: CHEM 30105. Corequisite: CHEM 30284 or 40245 or 40261.

**50112/70112 Advanced Analytical Chemistry (2)**

An advanced study of the theory and applications of analytical chemical equilibria: acid base, precipitation, complexation and redox. Prerequisite: CHEM 40555.

**50113/70113 Chemical Separations (3)**

Theory, instrumentation and applications of chemical separations for chemical analysis with an emphasis on gas and liquid chromatography. Prerequisite: CHEM 30106.

**50114/70114 Electroanalytical Chemistry (3)**

The physical basis of electrochemistry; instrumentation and applications in chemical analysis. Polarography, coulometry, voltammetry and ion-selective electrodes. Lecture 3 hours weekly. Prerequisite: CHEM 40555.

**50245 Biochemical Foundations of Medicine (4)**

Introduction to chemistry and metabolism of important compounds in biological systems; enzymes and characteristics of enzyme catalysis; regulation of metabolism at molecular, cellular and organism levels; inborn and induced errors of metabolism. Designed and scheduled for, and priority given to, students in integrated life sciences program. Prerequisite: CHEM 30481.

**50248/70248 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 CHEM 40245 or CHEM 40247.

**50261/70261 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 bioenergetic. Prerequisite: special approval.

**50262/70262 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. Prerequisites: CHEM 50261 or 70261; and special approval.

**50263/70263 Physical Biochemistry I (3)**

Principles and techniques of physical chemistry used in studying biomacromolecules and biological systems. Topics covered are thermodynamics, spectroscopy, structure and properties of biological molecules. Prerequisite: CHEM 40555 or 40567.

**50302 Inorganic Chemistry II (3)**

Physical techniques in inorganic chemistry, molecular structure and bonding, metallic and ionic solids, organometallic chemistry, homogeneous and heterogeneous catalysis; solidstate and materials chemistry, nanomaterials, nanoscience and nanotechnology. Prerequisite: CHEM 30301.

**50303 Inorganic Chemistry III (3)**

Molecular symmetry, molecular orbital theory of polyatomic molecules and octahedral complexes, electronic spectra and reaction mechanisms of d-block complexes, periodic trends Groups 1 and 2 and d-block, bioinorganic chemistry. Prerequisite: CHEM 50302.

**50352/70352 Inorganic Materials Chemistry (3)**

Broad survey of the synthesis, properties, characterization and applications of inorganic materials.

**50365/70365 Biological Inorganic Chemistry (3)**

Physical methods, s-block metals, metal-induced stabilization, electron transfer proteins, oxidoreductases, hydrolases and lyases, metal transport and storage, nitrogenases, group-atom transfer and metals in medicine. Prerequisite: CHEM 30360.

**50451/70451 Organic Materials Chemistry (3)**

Broad survey of the synthesis, properties, characterization and applications of organic and polymeric materials.

**50476/70476 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.

**50478/70478 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.

**50555/70555 Elementary Physical Chemistry (3)**

Fundamental concepts of physical chemistry, with example problems chosen emphasizing application in chemistry and the biological science. Prerequisite: CHEM 10061 and MATH 22005 and PHY 23102. Pre- or corequisite: CHEM 30107.

**50556/70556 Elementary Physical Chemistry (3)**

A continuation of CHEM 50555. Areas covered are chemical kinetics, quantum chemistry and the solid state. Prerequisite: CHEM 50555 or PHY 45301

**50557/70557 Physical Chemistry Laboratory (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. Pre- or corequisite: CHEM 5/70555. Special course fee: \$40 per credit hour (subject to change).

**50558/70558 Physical Chemistry Laboratory (2)**

Experiments and interpretation, reporting, and correlation of data with theory. Emphasis on gases, liquids, solutions, surface properties, thermodynamic variables, rates of reaction, transport phenomena and spectral properties. Pre- or corequisite: CHEM 5/70556.

**50570/70570 Intermediate Physical Chemistry (2)**

Special topics of physical chemistry, with applications to problems of chemical interest that are not covered in the basic course. Prerequisite: CHEM 5/70556.

**50571/70571 Surface Chemistry (2)**

Treatment of basic principles and concepts in surface and colloid chemistry. Relationship to practical systems emphasized. Prerequisite: CHEM 40555 or 40567.

**50575/70575 Molecular Spectroscopy (3)**

Survey of the fundamental principles of the interaction of radiation with matter, with an emphasis on the interpretation of microwave, infrared and ultraviolet-visible spectra. Introduction to group theory and its application to spectroscopic interpretation. Description of modern experimental techniques. Prerequisite: CHEM 40556.

**50583/70583 Physical Chemistry of Macromolecules (2)**

A course designed to cover the basic principles of polymer science. Structure, properties and characterization of polymeric systems will be discussed. Prerequisite: CHEM 40555 or 40567.

**50795 Current Topics in Chemical Education (1-3)**

Designed to present recent advances in chemical research, instrumentation and theory to chemistry educators. S/U grading. Prerequisite: special approval.

**60050/70050 Chemistry Research Proposal (3)**

The student will prepare an independent and original research proposal that is completely distinct from the thesis project.

**60111/70111 Theory of Chemical Instrumentation (2)**

General survey course on theory of instruments. Special emphasis on data interpretation and problem solving. Prerequisite: special approval.

**60115/70115 Analytical Spectroscopy (3)**

An advanced study of the fundamental principles, instrumentation and experimental techniques associated with different analytical spectroscopic methods.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester, distributed over several semesters if desired. IP permissible.

**60249/70249 Biochemical Techniques (2 each)**

Laboratory work emphasizing modern methods of biochemical investigation. Experiments illustrating use of spectrophotometric, chromatographic and isotopic methods. May be taken for graduate credit by chemistry majors. S/U grading; IP permissible. Co- or prerequisite: CHEM 60247 or 70247.

**60250/70250 Biochemical Techniques (2 each)**

Laboratory work emphasizing modern methods of biochemical investigation. Experiments illustrating use of spectrophotometric, chromatographic and isotopic methods. May be taken for graduate

credit by chemistry majors. S/U grading; IP permissible. Co- or prerequisite: CHEM 60249 or 70249.

**60265/70265 Enzymology (3)**

Basic principles of steadystate and rapid enzyme kinetics; theory and experiment; catalytic mechanisms for selected enzymes. Prerequisite: special approval.

**60269/70269 NMR: Theory and Application in Biochemistry (1 or 2)**

Basic principles of high-resolution nuclear magnetic resonance will be applied at a general level in the study of biochemical structure and function. Prerequisite: CHEM 30284 and 40551.

**60291/70291 Seminar: Recent Developments in Biochemistry (1)**

Presentation and discussion of original papers from current literature. Participation by students and faculty.

**60299 Thesis II (2)**

Thesis students must continue registration until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CHEM 60199.

**62291/72291 Seminar: Biochemistry (1)**

Students register once each year. Participation extends throughout the academic year. IP permissible.

**60253/70253 Biomacromolecular Structures(1)**

Structure/function of motile processes in bacteria and eukaryotic cells; supermolecular structure and self-organization of proteins and nucleic acids in chromatin, spliceosomes, viruses and ribosomes. Prerequisite: special approval.

**60254/70254 Biomembranes (3)**

Biological membranes; composition, structure, dynamics and biogenesis; structure/function of protein mediated membrane transport. Prerequisite: special approval.

**60297/70297 Advanced Biochemistry (2)**

Course content is variable, each offering being concerned with a specific area of biochemistry. Examples are metabolism and regulation of the chemistry of proteins and other macromolecules. Lecture 2 hours weekly. Prerequisite: special approval.

**60327/70327 Modern Inorganic Chemistry (3)**

Synthesis, structure and reactivity of inorganic compounds, including transition metal and organometallic complexes. Prerequisite: CHEM 40362.

**60337/70337 Inorganic Magnetic Spectroscopy (3)**

Applications of magnetic resonance spectroscopic techniques (NMR, EPR and Mossbauer) in inorganic and organometallic compounds.

**60347/70347 Chemical Crystallography (3)**

Structure solution and refinement methods of X-ray diffraction data. Emphasis will be placed on single-crystal techniques.

**60391/70391 Seminar: Recent Developments in Inorganic Chemistry (1)**

Presentation and discussion of current research papers in inorganic chemistry. Participation by students and faculty. IP permissible.

**60471/70471 Advanced Organic Chemistry—Mechanistic Aspect (3)**

Discussion of organic reaction mechanisms. Chemistry of reactive intermediates, aromaticity, addition/elimination, nucleophilic/electrophilic substitution, bonding theories and other fundamental topics governing organic reactions. Prerequisite: CHEM 30482.

**60472/70472 Advanced Organic Chemistry—Synthetic Aspects (3)**

Disconnection approach to organic synthesis. Modern methods for carbon bond formation and functional group interconversion,

and their application to natural product synthesis. Prerequisite: CHEM 30482.

**60473/70473 Stereoselective Organic Synthesis (3)**

Modern methods of asymmetric synthesis; introduction to selected methods for stereoselective N-heterocycle synthesis; application of these methods in natural product synthesis. Prerequisite: CHEM 30482.

**60541/70541 Advanced Physical Chemistry (3)**

Covers basic materials of modern physical chemistry in two broad areas: thermodynamics and introductory quantum mechanics. Prerequisite: CHEM 50556.

**60542/70542 Advanced Physical Chemistry (3)**

Covers basic materials of modern physical chemistry in the area of application of wave mechanics to atomic structures, chemical bonding and reactivity. Prerequisite: CHEM 6/70541.

**60543/70543 Statistical Thermodynamics (3)**

Theory and applications of statistical thermodynamics and mechanics on non-interacting and interacting particles of real and model systems; gases, solutions, crystals, polymers; dielectric and magnetic phenomena. Prerequisite: CHEM 6/70542.

**60563/70563 Quantum Chemistry (3)**

Basic principles of quantum mechanics. Those aspects of theory of special interest to chemistry emphasized. Lecture 3 hours weekly. Prerequisite: CHEM 6/70541.

**60591/70591 Seminar: Recent Developments in Physical Chemistry (1)**

Presentation and discussion of original papers from current literature. IP permissible.

**60894/70894 College Teaching of Chemistry (1)**

Experience in teaching of chemistry at college level. S/U grading.

**60898 Master's Research (1-15)**

Research for master's students. Credits earned may be applied toward degree if department approves. Repeat registration permitted. S/U grading; IP permissible.

**61191/71191 Seminar: Problem Solving in Analytical Chemistry (1)**

Discussion of recent chemical analysis methods, sample preparation and data handling, as well as practical student experience involving characterization of real samples. IP permissible.

**61491/71491 Seminar: Problem Solving in Organic Chemistry (1)**

Practical experience in solution of current problems of structure, synthesis and mechanism in organic chemistry. Participation extends throughout nine-month academic year. Repeat registration permitted. IP permissible.

**62191/72191 Seminar: Analytical Chemistry (1)**

Students register once each year. Participation extends throughout the academic year. IP permissible.

**62391/72391 Seminar: Inorganic Chemistry (1)**

Students register once each year. Participation extends throughout the academic year. IP permissible.

**62491/72491 Seminar: Organic Chemistry (1)**

Students register once each year. Participation extends throughout the academic year. IP permissible.

**62591/72591 Seminar: Physical Chemistry (1)**

Students register once each year. Participation extends throughout the academic year. IP permissible.



**70195 Advanced Topics, Analytical (1-3)**

Advanced topics in analytical chemistry. Repeat registration permitted. Prerequisite: special approval.

**70295 Advanced Topics in Biochemistry (1-3)**

Advanced topics in biochemistry. Repeat registration permitted. Prerequisite: special approval.

**70395 Advanced Topics, Inorganic (1-3)**

Advanced topics in inorganic chemistry. Repeat registration permitted. Prerequisite: special approval.

**70495 Advanced Topics, Organic (1-3)**

Advanced topics in organic chemistry. Repeat registration permitted. Prerequisite: special approval.

**70595 Advanced Topics, Physical (1-3)**

Advanced topics in physical chemistry. Repeat registration permitted. Prerequisite: special approval.

**80199 Dissertation I (15)**

Doctoral dissertation, for which registration in two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy.

**80299 Dissertation (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CHEM 80199.

**80898 Research (1-15)**

Research for doctoral students. Credits earned may be applied toward degree if department approves. Repeat registration

permitted. S/U grading; IP permissible.

**Graduate Curriculum and Instruction (CI)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Curriculum and Instruction (CI)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**50093/70093 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.

**50095 Special Topics: Workshop/Seminar in Curriculum and Instruction (1)**

Special topic: seminar/workshop for international baccalaureate program.

**53093 Variable Title Workshop in Exercise, Leisure and Sport (1-3)**

Workshop in exercise, leisure and sport studies; topics vary. Repeat registration permitted. Maximum 4 hours may be applied to degree. S/U grading.

**55015 Psychology of Coaching (3)**

Factors affecting athletic performance emphasizing skill, motivation, personality and practice conditions.

**55020 Contemporary Athletic Coaching (3)**

A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society.

**55051 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. Prerequisite: special approval.

**55053 Elementary School Physical Education Content (3)\***

Physical education content for the elementary school child with emphasis on developmentally appropriate learning in three domains. Prerequisite: special approval.

**55058 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. Prerequisite: special approval.

**55059 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. Prerequisite: special approval.

**57330 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 teaching students who struggle as readers and writers.

**57501 Teaching Mathematics in Early and Middle Grades (3)**

This course addresses pedagogical content knowledge for the teaching and learning of mathematics in grades K-9, based on the national content and process standards.

**57502 Science Teaching in Early and Middle Grades (3)**

This course addresses pedagogical content knowledge for the teaching and learning of science in grades K-9. In addition, students will examine how to best align science practice to state and national science standards.

**57503 Teaching Social Studies in Early and Middle Grades (3)**

This course addresses pedagogical content knowledge for the teaching and learning of social studies in grades K-9, based on the national content and process standards.

**57504 Teaching Reading, and Writing in Middle Grades (3)**

Addresses pedagogical content knowledge for the teaching and learning of reading and writing in grades K-9, based on the national content and process standards.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CI 60199.

**61125/71125 Issues and Trends in Social Studies Education (3)**

This course will provide an overview of historical trends and contemporary issues in social studies education.

**61126/71126 Research in Social Studies Teaching and Learning (3)**

During this course students will examine, discuss, and study research in the teaching and learning of social studies as well as develop their own study of social studies teaching and learning.

**61127/71127 Technology and Social Studies (3)**

Course provides experiences with and study of various uses of technology in social studies teaching and learning. During the

course, we will examine implications and effects of technology on student learning, teaching, and society as a whole.

**61130/71130 Multicultural Education: Strategies (3)**

Teachers will be provided with knowledge and strategies for teaching children to function effectively in a pluralistic society.

**61133/71133 Issues and Trends in Elementary Science (3)**

New discoveries in science, including issues in society with direct science content. Emphasis is on practical and simple classroom applications.

**61134/71134 Research Trends in Science Education (3)**

Course in issues relating to research methods pertinent to science education.

**61140/71140 Cultural and Multiculturalism in Science Education (3)**

This course provides a general introduction to the impacts of multiculturalism and the social studies of science on science education implications for science educational curriculum theory, classroom practice, and research are explored. Topics examined include race and gender in science education, teaching the culture of science and teaching science in a global context.

**61141/71141 Nature of Science in Science Education (3)**

Course in issues relating to the nature of science as it impacts science education.

**61142/71124 History and Inquiry in Science Education (3)**

This course will investigate the continuing debate for what counts as science and how that vision has been represented throughout history. The impacts of the political, economic and societal factors on the nature of scientific inquiry will also be discussed within a historical context.

**63193 Variable Title Workshop in Exercise, Leisure and Sport (1-3)**

Workshop in exercise, leisure and sport; topics vary. Repeat registration permitted. Maximum 4 hours applied to the degree. S/U grading. Prerequisite: special approval.

**65007/75007 Motor Skill Acquisition and Performance (3)**

Examination of contemporary motor learning and control theories and laboratory experiences, with emphasis upon motor skill acquisition and performance as studied experimentally. Laboratory included. Prerequisite: ELS 6/75030.

**65043/75043 Supervision Processes in Sport Pedagogy (3)**

A course designed to enhance ability to develop more effective teaching/learning environments through the use of systematic observation and application of supervisory theory.

**65044 Pedagogical Analysis of Physical Education and Sport (3)**

An analysis of contemporary pedagogical models, practices and theories relevant to the multidimensional environments of physical education and sport.

**65055 Curriculum Development in Sport Pedagogy (3)**

The analysis, development and design of curricular theory and practice in physical education and sport. An examination of current and future issues in curriculum implementation.

**65392 Advanced Practicum in Physical Education (10)\***

A sixteen-week practicum in K-12 physical education, combining full-time student teaching and student teaching seminar. Eight weeks of student teaching at the preschool- to fifth-grade level and eight weeks at the sixth- to twelfth-grade level. S/U grading; IP permissible. Prerequisite: special approval.

**65592/75592 Internship in Motor Development (1-12)**

Supervised and supervisory experiences in motor development

for all ages and abilities, including conceptual bases for assessment, individualizations, task analysis. Maximum of 6 hours applies to degree. Repeat registration permitted. IP permissible. Prerequisite: special approval.

**65692 Internship in Athletic Coaching (2-4)\***

Supervised experience in organized sport focused upon the duties of a coach; can be at one or more levels (youth, school, college, professional) and sports. A focus on the philosophy, skills, strategies and tactics of coaching within contemporary society. S/U grading; IP permissible. Prerequisite: special approval.

**67001/77001 Fundamentals of Curriculum (3)**

Orientation to the curriculum field. Theoretical examination of foundations, elements, design and development of school, college and nonschool curricula.

**67002/77002 Curriculum Leadership (3)**

This course explores the theories and practices of curriculum leadership with reference to the current politics of education and the democratic ideals of information-age, pluralistic societies. Mandated accountability reform is critically compared to invited professional renewal. Prerequisite: CI 67001.

**67003/77003 Teacher Education (3)**

This course is designed to provide a broad overview of teacher education, including curriculum, organization, governance and policy.

**67004/77004 Professional Development in Teaching (3)**

This course is designed to provide a broad overview and conceptual framework for professional development, including its historical, cultural, psychological and social contexts.

**67007 Critical Reflection in Curriculum and Instruction (2)**

Capstone course for a master's degree in curriculum and

instruction. Students critique their content area studies with reference to the standard of curriculum-based pedagogy. Three concepts inform this critique: continuing professional development, multicultural education, curriculum leadership for reform and renewal. Prerequisite: CI 67001.

**67010/77010 Curriculum Evaluation (3)**

Students will focus on designing program evaluation related to assessment, development and implementation of curricula, critique of national and local curricular programs, application elements of evaluation models. Prerequisite: CI 6/77001.

**67091 Seminar in Curriculum and Instruction (1-4)**

A wide range of topics for advanced graduate inquiry. Normally a balance of theoretical study and creative application.

**67092/77092 Advanced Practicum and Internship in Curriculum and Instruction (1-10) \***

Advanced practicum in curriculum and instruction. Prerequisite: special approval. S/U grading.

**67095/77095 Special Topics in Curriculum and Instruction (1-5)**

Specialized offerings in response to emerging or selected program needs in curriculum design, development and implementation.

**67096/77096 Individual Investigation in Curriculum and Instruction (1-5)**

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. S/U grading; IP permissible.

**67098/87098 Research in Curriculum and Instruction (1-15)**

Students pursue an individualized research project on a specialized topic with approval and under direction of instructor. S/U grading; IP permissible.

**67105/77105 Improving Classroom Instruction (3)**

Emphasizes motivation, varied materials and methods, individual needs and sources of teacher help. Class members define goals and means.

**67107/77107 Curriculum and Organization in the Middle Grades (3)**

History, philosophy, curriculum and organization of schools serving children ages 8-15. Emphasis on development of programs and curriculum that are responsive to the needs of early adolescents.

**67108/77108 Teaching and Learning in the Middle Grades (3)**

Pedagogical theories and practices; approaches to instruction, relationship of teaching to learning and development for children ages 8-15.

**67224/77224 Teaching Mathematics Using Computers and Calculators (3)**

The purpose is to develop knowledge of research and theories regarding teaching and learning mathematics via computing devices. Further to develop proficiency in the use of computing devices and software that would be used in the teaching and learning of mathematics.

**67225/77225 Research in Mathematics Education (3)**

Current research theory, methodology and results in mathematics education will be investigated. Implications for instructional practice and curriculum design will be examined.

**67226/77226 Improving Mathematics Instruction in Middle Childhood (3)**

Instructional psychology and materials including technology for the effective teaching of mathematics in grade three through eight with a theoretical emphasis on cognitive development.

**67227/77227 Assessment in Mathematics Education (2)**

Investigation of standards and

practices in mathematical assessments as recommended by NCTM and current research. Prerequisite: Completion of two of the following: ADED 52267, CI 67224, CI 67226 or ECED 50147.

**67228/77228 Intervention in Mathematics Instruction (3)**  
Investigation of alternative methods of teaching mathematics to diverse learners who experience difficulties in learning mathematics.

**67240/77240 Introduction to Environmental Education (3)**  
Survey course emphasizes current debates in environmental issues, exploring the inter-connectedness of ecology, understanding the impact of culture and education on notions of environmental concerns, and how these ideas can be investigated within classroom contexts. The course is designed for teachers, science educators and other concerned citizens of the earth.

**67292/77292 Clinical Practicum in Mathematics Assessment (3)**  
Experience in designing and administering both formal and informal assessments. Prerequisite: Completion of two of the following: ADED 52267, CI 67224, CI 67226 or ECED 50147.

**67310/77310 Theory and Practice in the Teaching of Reading (3)**  
Nature and development of reading, approaches to instruction, relation to learning and development.

**67311/77311 Integrated Language Arts Instruction (3)**  
Issues and trends in instruction in listening and in oral and written expression.

**67312/77312 Teaching Writing as a Process (3)**  
Emphasizes a process approach to writing instruction in grades K-12. Examines the steps and studies of composing, evaluation and components of a school-wide program.

**67314/77314 Survey of Young Adult Literature (3)**  
Presents a survey of selected types of literature appropriate for students

in middle school, junior high and high school. Emphasis on evaluating, selecting and teaching.

**67315/77315 Survey of Children s Literature (3)**  
(Cross-listed with ENG 6/76052)  
Wide reading in children's literature, with particular application to school curriculum and field of reading.

**67316/77316 Criticism of Children s Literature (3)**  
(Cross-listed with ENG 6/76053) A critical study of outstanding children's literature from early times to present. Prerequisite: CI 6/77315.

**67318/77318 Teaching Drama in the Classroom (3)**  
Presents an in-depth survey of selected types of drama appropriate for elementary- and middle-school children. Theory and practice are emphasized.

**67319/77319 Diagnosis and Remediation in Reading (3)**  
Theory and application of diagnostic principles and remedial reading approaches with school-age children. Cultural, linguistic, cognitive and affective factors in diagnosing and remediating reading problems. Prerequisite: CI 6/77310.

**67320 Teacher as Literacy Researcher (3)**  
Capstone experience in master's program in literacy in which students pursue an individualized literacy research program. Prerequisite: EVAL 65510 or EVAL 65511, or CI 67351.

**67323/77323 Clinical Practicum in Corrective Reading (4)**  
Application of previous courses includes supervised diagnostic/prescriptive reading work with school-age pupils and diagnostic/remedial reporting. S/U grading; IP permissible. Prerequisite: CI 67319.

**67330/77330 Reading in Content Areas (3)**  
Information and competencies for improving students' reading and studying in the content areas. Focus

on intermediate grades through postsecondary years.

**67331/77331 Literacy Learning in Early Years (3)**  
Emphasizes developmental nature of literacy learning in preschool and primary grades; provides techniques for establishing effective reading and writing programs for young children.

**67333/77333 Black Women and Literacy (3)**  
This graduate level course is designed to support inquiry into literacy and its implications for women from the African diaspora. Several aspects of literacy will be considered, i.e., verbal, visual, and graphic. Questions will be raised about the implications of these forms of literacy for black women in different geographical locations.

**67337/77337 Theory and Practice in Teaching Literature-Secondary and College (3)**  
This course provides a rationale for and means of relating literary theory to classroom practice and pedagogical research. For secondary and postsecondary English teachers.

**67338/77338 Teaching Basic Writers-Secondary and College (3)**  
Current theory and practices for teaching linguistically diverse writers at the secondary and postsecondary levels. Foundations for teaching language in the context of writing.

**67339/77339 Writing Assessment and Response (3)**  
Exploration of issues in writing assessment, theoretical base for effective formative response to student writing, and design and implementation of writing-assessment measures.

**67345/77345 Organization and Supervision of Reading Programs (3)**  
Background and strategies for organizing and supervising reading programs. Emphasis on the state of the field, roles and responsibilities and current issues.

**67350/77350 College/Adult Reading Instruction (3)**

Reading strategies for teachers of adult learners with emphasis on the role of the teacher and the development of programs.

**67351/77351 Perspectives on Literacy Research (3)**

Inquiry into basic concepts and agendas for research through a study of historical, landmark and ground-breaking studies in literacy. Prerequisite: Reading specialization (READ) major.

**67352/77352 Literacy Coaching (3)**

Focus on principles and strategies related to literacy coaching prekindergarten to adult, within classrooms, schools, and districts. Prerequisite: CI 67310 or CI 77310, and CI 67319 or CI 77319, and CI 67323 or CI 77323, and CI 67330 or CI 77330, and MCED 50005.

**67392/77392 Advanced Practicum and Internship in Reading (1-10)\***

Supervised program requiring application of theory and practices in reading in field settings. Planned with and directed by a graduate faculty member.

**67395/77395 Special Topics in Reading (1-5)**

Specialized offerings in response to emerging or selected program needs in reading.

**67396/77396 Individual Investigation in Reading and Language Arts (1-5)**

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. S/U grading; IP permissible.

**67592/77592 Practicum Math Intervention (3)**

Practicum in Math Intervention. Prerequisites: Choose 2 of 4: ADED 52267, CI 67224 and 67226, ECED 50147.

**67791/77791 Seminar in Mathematics Education (3)**

An in-depth exploration of the theoretical frameworks and

methodologies used in current research in mathematics education will be conducted.

**80089 Residency I (3)**

Beginning doctoral seminar. Students begin to explore the field of curriculum and instruction by reading and discussing foundational and current theories and research in the field. Students will begin to identify and explore their research interests in the field. S/U grading.

**80090 Residency II (3)**

Advanced doctoral seminar. This will be a structured opportunity for students to synthesize research from the field, explore research options for their dissertation study, review literature for their research studies, and discuss the development of their research. Prerequisite: CI 80089.

**80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CI 80199.

**87000 Theory and Research in Teaching (3)**

Focuses on critical study of contrasting approaches to the study of teaching processes. Surveys issues to give students a more critical perspective and to provoke thought about the relationship among theory, research and practice. Required of CI Ph.D. students.

**87001 Theory and Research in Curriculum (3)**

Focuses on historic and contemporary examples of curriculum theory and their application in curriculum design, development and evaluation. Examines modes of inquiry used by

curriculum researchers and contemporary curriculum issues.

**87002 Forms of Inquiry (3)**

Introduction to the history, context, philosophy and ethics of inquiry in curriculum and instruction. Emphasis on acquainting CI doctoral students with faculty lines of inquiry and research foci, while preparing doctoral students for critical consumption of and significant contribution to inquiry in CI.

**87091 Seminar in Curriculum and Instruction (1-4)**

A wide range of topics for advanced graduate inquiry. Normally a balance of theoretical study and creative application.

**87340 Research in Reading (3)**

An introduction to a perspective on psychological processes underlying levels of reading from pre-reading to mature reading with implications for instruction.

**87342 Seminar in Reading and Language (3)**

Exploration of some of the issues, methods and findings on the relationship of reading and language. Examination of selected issues such as dialect, bilingualism, readability, language-based strategies for reading instruction.

**87343 Research in Teaching of Writing (3)**

Issues and methodologies in research in the teaching of writing. Students will review the literature and conduct research in a significant area of writing instruction.

**87391 Seminar in Reading (1-4)**

Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**87398 Research in Reading and Language Arts (1-15)**

Students pursue an individualized research project on a specialized topic with approval and under direction of instructor.

**87791 Doctoral Seminar in Mathematics Education (3)**

An in-depth exploration of the theoretical frameworks and methodologies used in current research in mathematics education will be conducted. Prerequisite: Doctoral standing, Curriculum and Instruction (CI) major, and special approval. Special fee \$15.

**Graduate Classics (CLAS)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Fall 2010](#) > Graduate Classics (CLAS)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**50793 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: special approval.

**51006 Roman History (3)**

(Cross-listed with HIST 51006) A survey of Roman history from its beginnings to the fall of the Roman Empire.

**51092 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 Classics faculty. The primary purpose is the observation and study of artifacts, monuments and sites which pertain to Classical antiquity. Examples of travel/study include field trips to museums, study trips to Rome or other cities and participation in an archaeological field school. The course may be repeated for a maximum of 7 hours if the destination differs. Special fee: actual cost.

**51095 Special Topics in Classics (3)**

Topic announced in the schedule of classes. Repeatable for a total of 6 credit hours.

**51097 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.

**51301 Classical Mythology (3)**

Assessment of major streams of ancient mythology stressing broad humanistic concepts of religion, philosophy and literature.

**51401 Greek Archaeology and Art (3)**

(Cross-listed with ARTH 52031) 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.

**51402 Roman Archaeology and Art (3)**

(Cross-listed with ARTH 52032) 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.

**51403 Roman Civilization (3)**

Extensive reading and reporting on phases of Roman public and private life.

**51503 Greek Literature in Translation (3)**

Major works of Greek literature studied in their historical context and by genre; knowledge of Greek not required.

**Graduate Communication Studies (COMM)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Communication Studies (COMM)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**55007 Freedom of Speech (3)**

Examines historic and contemporary instances relating to freedom of speech; study of limits, rights, responsibilities and sociolegal-rhetorical issues.

**55093/75093 Variable Title Workshop in Communication Studies (1-6)**

S/U grading.

**55095/75095 Special Topics (1-4)**

Offered when resources permit a topic different from existing courses. Topic will be announced when scheduled.

**55459 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.

**55960 Health Communication (3)**

Examines communication processes and research related to health and health care from the perspectives of public, professional and primary.

**60199 Thesis I (2-6)**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.  
Prerequisite: COMM 60199.

**65000/75000 Foundations of Communication Inquiry (3)**

Philosophy of science, epistemological and theory construction principles, which are the foundation of inquiry into the process of communication.

**65020/75020 Quantitative Research Methods in Communication (3)**

An examination of basic quantitative social scientific research methods and procedures for the study of communication.

**65040/75040 Qualitative Research Methods in Communication (3)**

Exploration of qualitative methods in human communication research. Focus on the nature of qualitative data, participant observation and archival strategies of data collection, and interpretive and interactionist approaches to data analysis.

**65060/75060 Communication Measurement and Analysis (3)**

A survey of self-report, observational and psychological instruments used in communication research. Uses of the computer in analyzing data obtained in communication research.

**65091/75091 Seminar in Persuasion (3 or 4)**

Examination of selected areas of persuasion research. Emphasis on synthesizing research results and formulating explanatory models of persuasive behavior. Prerequisite: special approval.

**65093/75093 Variable Title Workshop in Communication (1-6)**

Variable topic workshop in communication studies.

**65096/75096 Individual Investigation (1-6)**

Independent study of area or problem to be selected in consultation with graduate staff. May be repeated for maximum of 6 credit hours. S/U grading; IP permissible.

**65098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements if school approves. Repeat registration permitted. S/U grading; IP permissible.

**65591/75591 Seminar in Small Group Communication (3 or 4)**

Research theories and findings in small group communication. Prerequisite: COMM 35550.

**65652/75652 Theories of Communication (3)**

Introduction to approaches in the study of human communication. Focuses on differing views of interaction, from theory-building and research-generation perspective.

**65655/75655 Nonverbal Communication (3)**

Examination of a range of nonverbal functions including: relationship development, immediacy and deception. Emphasis on research and theory.

**65656/75656 Communicative Uses of Language (3)**

Examination of approaches to studying verbal symbol use in human communication processes. Major theories and methods of language analysis will be applied to current research.

**65660/75660 Political Communication (3)**

(Cross-listed with JMC 65660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**65661/75661 Communication in an Information Society (3)**

Examines how the development and use of newer communication technologies have influenced human communication. Considers the evolution, social and psychological impact, culture of newer communication technologies such as the Internet, and how research adapts to these newer media.

**65662/75662 Mass Media Effects (3)**

Examines perspectives on media effects, the impact media have on individuals and societies, and how individual, societal and communication elements influence media uses and effects. Explores issues such as media portrayals, campaigns, violence and children and the media.

**65665/75665 Personal and Mediated Communication (3)**

Examination of the interface of interpersonal and mediated communication in everyday life. Includes topics such as parasocial interaction, talk radio, TV co-viewing, cell phones, teleconferencing, computer-mediated relationships and media portrayals.

**65670/75670 Interpersonal Communication (3)**

Survey of recent theoretical developments and research in interpersonal communication. Topics include relationship development, interaction, interpersonal traits, compliance, conversational analysis and research methods.

**65680/75680 Intercultural/International Communication (3)**

Examination of theoretical perspectives, research issues and the rhetorical analyses of intercultural and international communication.

**65690/75690 Seminar in Communication Theory (3 or 4)**

Examination of selected conceptual orientations to the study of human communication and pertinent



research. Emphasis on behavioral science research results.

**65791/75791 Seminar in Instructional Communication (3 or 4)**

Intensive study of selected problems in instructional communication.

**65794/75794 Teaching of College Communication (2-4)**

Training and experience in college teaching. Maximum of 3 hours applicable toward master's degree requirements. Letter grade or S/U grading is given at department's option.

**65851/75851 Organizational Communication (3)**

Structure, methodology and application of communication theory in industrial and organizational settings.

**65891/75891 Seminar in Organizational Communication (3 or 4)**

Theories and problems of human communication within, between and/or among formal organizations. Prerequisite: special approval.

**80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be the semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: COMM 80199.

**85098 Research (1-15)**

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if school approves. Repeat registration permitted. S/U grading; IP

permissible. Prerequisite: admission to doctoral study.

**Chemical Physics (CPHY)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Chemical Physics (CPHY)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2-6 hours in a single semester or distributed over two semesters if desired. S/U grading; IP permissible. Prerequisite: approval of advisor.

**60299 Thesis II (2)**

Thesis students must continually register each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CPHY 60199.

**60498 Research (1-15)**

Research or individual investigation. Credits earned may be applied toward meeting degree requirements if approved. Repeat registration permitted. Prerequisite: special approval.

**62241/72241 Soft Matter (3)**

Lectures on soft materials, including binary fluid mixtures, polymers, colloids, thermotropic and lyotropic liquid crystals. Structures, defects, and textures of phases with orientational and partial translational order. Dynamics of phase transitions.

**62242/72242 Characterization of Soft Materials (4)**

Basic techniques in characterization using X-ray scattering, neutron scattering, light scattering, NMR, optical microscopy, scanning electron microscopy, transmission electron and tunneling electron microscopy and ellipsometry.

Laboratory measurements, error analysis, cell fabrication.

**62243/72243 Lyotropic Liquid Crystals and Micellar Systems (3)**

Properties of lyotropic liquid crystals, polymer solutions and aqueous solutions of amphiphilic compounds. Self-assembly of amphiphilic compounds, formation and properties of micelles, cylinders, bilayers, vesicles and tubules.

**62245/72245 Fundamentals of Liquid Crystal Science (4)**

Basic liquid crystals structures and their main physical properties, such as visco-elastic, electric, magnetic and optical properties except the nature of their phase transitions. Also discussed is their interactions with surfaces and the structural defects that they can form.

**64491/74491 Seminar: Liquid Crystals (1)**

Discussion of current literature or original research in liquid crystals. Participation by students, faculty and guests. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**64495/74495 Special Topics in Chemical Physics (1-3)**

Topic to be announced when scheduled. Repeat registration permitted. Prerequisite: special approval.

**72248 Liquid Crystal Optics and Photonics (3)**

Optics of cholesterics, liquid crystalline photonic bandgap materials, nonlinear optics of liquid crystals; optomechanical effects in liquid crystal elastomers.

**72249 LabView for Data Acquisition and Instrument Control (1)**

Introduction to laboratory data acquisition and instrument control using LabView software.

**72335 Advanced Liquid Crystalline and Polymeric Materials (3)**

Lecture/laboratory on ordered systems and materials, including liquid crystals, liquid crystal



polymers, guest-host systems and effects, photochemical interactions of anisotropic systems, materials for liquid crystal alignment.

**72415 Fluid Mechanics and Rheology (3)**

Static and dynamic properties of fluids: hydrostatics, Navier Stokes equations, Newtonian fluids, viscosity, anisotropic liquids and rheology of highly viscous fluids. Prerequisite: B.S. in chemistry or physics.

**72418 Defects in Liquid Crystal Materials (3)**

Defects in solids and liquid crystals: observation and characterization of defects, elastic properties, defect interactions and movement, and phases with periodic defect structures. Prerequisite: B.S. in chemistry or physics.

**72461 Nonlinear Optics of Materials (3)**

Fundamentals of nonlinear optics of materials: nonlinear polarization and susceptibilities, optical harmonic generation, sum and difference frequency generation, parametric amplifiers and oscillators, and stimulated scattering. Prerequisite: PHYS 4/55501.

**72515 Chemistry of Amphiphiles (3)**

Multiphase liquid crystal systems: molecular structure and properties of amphiphiles in water with emphasis on thermodynamics of self-assembly, phase properties of micellar, hexagonal and lamellar systems. Prerequisite: special approval.

**72517 Membrane Spectroscopy (2)**

Multiphase liquid crystal systems: spectroscopic techniques to determine structure and molecular dynamics of model and biological membranes with emphasis on magnetic resonance techniques. Prerequisite: special approval.

**72640 Liquid Crystal, Polymer and Colloid Composites (4)**

Interdisciplinary science of systems consisting of liquid crystal, polymer

and colloid. Statistical physics of composite systems, mixing free energy, phase separation principle, phase diagrams and phase separation dynamics. States, structures and free energies of liquid crystal, polymer and colloidal systems. Polymer dispersed liquid crystals (PDLCs), polymer stabilized liquid crystals (PSLCs) and their applications. Laboratory experiments on composite systems and fabrication of PDLC and PSLC light shutters.

**72641 Liquid Crystal Surfaces and Interfaces (3)**

Surface tension of liquids and solids, surface structure, Wulff constructions, wetting and roughening, and experimental methods in surface studies. Prerequisite: special approval.

**72643 Liquid Crystal Applications (4)**

Apply knowledge of liquid crystals and optics to the design of liquid crystal electro-optical devices. Emphasis is on modeling of devices and the use of that modeling to optimize device characteristics. Several particular device designs are considered to familiarize the student with the state of the art in liquid crystal displays and other electro-optical applications of liquid crystals and to prepare them to advance the art in future designs.

**72645 Semiconductor Devices (3)**

Introduction to semiconductor device technology, including principles of operation, integrated circuit fabrication techniques and device applications.

**72647 Structured Fluids (3)**

The basics of fluids having internal structures, such as long range orientational order and/or one and two dimensional positional order. Materials include thermotropic smectic, lamellar lyotropic and columnar liquid crystals. Prerequisite: special approval.

**72650 Computational Materials Science (3)**

Materials modeling at the classical (i.e. non-quantum) level. Monte Carlo methods; molecular dynamics simulation; mesoscale models; numerical methods; case studies. Prerequisite: special approval.

**72651 Nanobiotechnology (3)**

Nanobiotechnology is the manipulation and analysis of biological molecules, cellular components with nanometer sizes. This interdisciplinary course presents the concepts, principles and the state-of-the-arts of nanotechnologies and their applications in biological and biomedical science and engineering. Focus is on the fundamental physical principles and engineering technologies of device miniaturization and system integration for bioapplications.

**80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: special approval.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: Completion of 30 hours of CPHY 80199.

**80498 Research (1-15)**

Research or individual investigation for doctoral student who has not yet passed candidacy exam. Credit earned may be applied toward degree. Repeat registration permitted. S/U grading; IP permissible.

## **Graduate Computer Science (CS)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Computer Science (CS)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**51012 Finite Mathematics (3)**  
(Cross-listed with MATH 51012) A continuation of discrete mathematics emphasizing combinatorial techniques, graph applications in algorithms, finite algebra, number theory and probability. Covers useful mathematics for CS majors. Prerequisite: CS 31011 or MATH 31011.

**51045 Metalogic (3)**  
Consideration of various metatheorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus and incompleteness of the theory of arithmetic.

**52201 Introduction to Numerical Computing I (3)**  
(Cross-listed with MATH 52201) An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-square data fitting, nonlinear equations and systems, and optimization problems. Prerequisite: MATH 12003, 21001 and CS 23021. Special fee: \$10 per semester.

**52202 Introduction to Numerical Computing II (3)**  
(Cross-listed with MATH 52202) A continuation of CS 52201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations. Prerequisite: MATH 32044 and CS 4/52201. Special fee: \$10 per semester.

**53005 Introduction to Database Systems 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: CS 46101.

**53006 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: \$20 per semester.

**53111 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. Prerequisite: CS 35101 and 33101.

**53202 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.

**53203 Systems Programming (3)**  
Design, 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: \$20 per semester.

**53401 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. Prerequisites: C (2.0) or better in CS 33001.

**53901 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: CS 33001. Special fee: \$6.67 per credit hour (subject to change).

**54201 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: \$10 per semester.

**55111 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: \$10 per credit hour (subject to change).

**55201 Computer Communications Networks (3)**  
An introduction to netcentric 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. Special fee: \$3.33 per credit hour (subject to change).

**55231 Internet Engineering (3)**  
Design fundamentals and working principles of Internet systems at the IP layer and above. DNS, Interdomain Routing, Internet Client Server programming, Application Level Protocols (HTTP, XML, etc.), Web Server Architecture, Browser, Internet Security and Multimedia Serving. Prerequisite: CS 33001,

53201 and 55201. Special fee: \$20 per semester(subject to change).

**56101 Design and Analysis of Algorithms (3)**

Introduction to algorithmic concepts, practical techniques for the design and analysis of algorithms; searching, sorting, integer and floating point arithmetic; vector and matrix manipulation. Prerequisite: CS 33001 and MATH 12003.

**56201 Introduction to the Theory of Automata, Formal Languages and 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. Prerequisite: CS 23022 and MATH 12003.

**57101 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: \$20 per semester.

**57105 Web Design and Programming I (3)**

A joint computer science and visual communication design course on Web concepts and high-quality Web design: computer science, visual communication design principles, tools, architecture, presentation, design and creation of Web sites by teams. Web-based instruction is used. IP permissible. Special fee: \$20 per semester.

**57106 Web Design and Programming II (3)**

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 teams. IP permissible. Special fee: \$20 per semester.

**57107 Web Design and Programming Studio (3-6)**

A joint Computer Science (CS) and Visual Communication Design (VCD) 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 permissible. Prerequisite: VCD 56001 or CS 57106. Special fee: \$6.67 per credit hour (subject to change).

**57201 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.

**57205 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.

**57221 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. Prerequisite: C (2.0) or better in CS 33001.

**59893 Variable Title Workshop in Computer Science (1- 6)**

Studies in special topics in computer science. S/U grading. Prerequisite: Special approval.

**59995 Special Topics in Computer Science (1-3)**

Various special courses will be announced in the Schedule of Classes under this title. Repeat registration permitted. Prerequisite: Special approval.

**60093 Variable Title Workshop in Computer Science (1-3)**

Studies of special topics in computer science. Not acceptable for credit toward a graduate degree in computer science without approval of the student's advisor. S/U grading. Prerequisite: special approval.

**60094/70094 College Teaching of Computer Science (1)**

Techniques and problems of college teaching of computer science. Student presentation of computer science papers will be included. S/U grading.

**60220 Bioinformatics (4)**

Theory, methods and computational approaches used to interpret large volumes of Bio-Science information; reviews of major data repositories. An interdisciplinary research project is required. Prerequisite: special approval.

**61001 Structure of Computer Science (3)**

An integrated view of the structure of computer science; algorithms, architecture, operating systems, programming languages and networking. Special emphasis on the framework of computer science and its relation to other fields. No credit for CS majors. IP permissible.

**61002 Algorithms and Programming I (4)**

An introduction to the algorithms and tools used in computer science; includes programming in a high level language. No credit for CS majors. Prerequisite: CS 61001.

**61003 Algorithms and Programming II (4)**

Further exploration into the tools used in computer science. No credit for CS majors. Prerequisite: CS 61002.

**61092 Practicum in CS for Information Architecture and Knowledge Management (1-5)**

This course is an alternative to IAKM 60199 for students interested in pursuing a CS thesis. Credit for IAKM 60199 or any other project course is not allowed. Not repeatable. S/U grading; IP

permissible.

**61199 Thesis I for Information Architecture and Knowledge Management (2-6)**

Thesis students must register for a minimum of 6 hours. No credit for CS students. S/U grading; IP permissible.

**61299 Thesis II for Information Architecture and Knowledge Management Students (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.

**62201/72201 Numerical Computing I (3)**

(Cross-listed with MATH 6/72201) Numerical methods for scientific computing emphasizing modern mathematical software and environments. Computer arithmetic and errors, linear systems of equations, least squares data fitting, eigenvalues and singular values, nonlinear systems optimization. Prerequisite: MATH 21001 and 22005.

**62202/72202 Numerical Computing II (3)**

(Cross-listed with MATH 6/72202) Continuation of CS 6/72201. Interpolation, numerical integration and differentiation, ordinary differential equations initial and boundary value problems, partial differential equations, fast Fourier transforms and applications. Prerequisite: MATH 52045 and CS 6/72201.

**62251/72251 Numerical Analysis I (4)**

(Cross-listed with MATH 6/72251) Floating point computation, rounding error analysis, conditioning. Interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration. Prerequisite: MATH 4/52002.

**62252/72252 Numerical Analysis II (3)**

(Cross-listed with MATH 6/72252) Numerical solution of linear systems of equations (LU

factorization, error analysis). Least squares orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition. Prerequisite: MATH 4/51021 and CS 6/72251.

**62261/72261 Numerical Solution of Ordinary Differential Equations (3)**

(Cross-listed with MATH 6/72261) Discretization methods for ordinary differential equations and systems. Initial value and boundary value problems. Numerical implementations, software and analysis. Prerequisite: MATH 32044 and CS 4/52202.

**62262/72262 Numerical Solution of Partial Differential Equations (3)**

(Cross-listed with MATH 6/72262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations. Prerequisite: MATH 4/52045 and CS 4/52202.

**62263/72263 Numerical Solution of Large Sparse Linear Systems (3)**

(Cross-listed with MATH 6/72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multigrid methods. Prerequisite: MATH 4/51021 and CS 4/52202.

**62264/72264 Numerical Solution of Nonlinear Systems (3)**

(Cross-listed with MATH 6/72264) Construction and analysis of numerical methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software. Prerequisite: MATH 4/52041 and CS 4/52202.

**63005/73005 Advanced Database Systems Design (3)**

Introduction to a variety of advanced database topics and ongoing trends in modern database systems. The course includes advanced issues of object-oriented

database, XML, advanced client server architecture and distributed database techniques. Prerequisite: CS 4/53005.

**63015/73015 Data Mining Techniques (3)**

The course presents the concepts and techniques of data mining. Data mining is a process of discovering information from a large set of databases. This course takes a database perspective on data mining. Prerequisites: CS 53005 and MATH 50011.

**63101/73101 Advanced Programming Languages (3)**

Topics such as programming language design problems, formal semantics, language definitions, functional programming, specialized or very high-level languages, correctness considerations, parallelism and concurrency. Prerequisite: CS 4/53101.

**63111/73111 Advanced Compiler Design (3)**

Explores implementation issues such as optimization techniques, code generation, error handling, automatic compiler generation. May include compiler project parallelization. Prerequisite: CS 4/53111 and 4/55101. Special fee: \$20.00 per semester.

**63201/73201 Advanced Operating Systems (3)**

Introduction to distributed systems, interprocess communication, distributed mutual exclusion, synchronization and deadlock, distributed process management and distributed file systems. Prerequisite: CS 4/53201. Special fee: \$10 per semester.

**63301/73301 Parallel and Distributed Computing (3)**

Overview of parallel and distributed computing; structuring parallel and distributed programs; parallel programming using SIMD, SPMD, MIMD and associative computing; parallel and distributed architecture using existing machines as case studies. Special fee: \$6.67 per credit hour (subject to change).

**63304/73304 Cluster Computing (3)**

This course will investigate clusters of computers as a computing platform, hardware and software tradeoffs for cluster and application performance, and programming of clusters. Prerequisite: CS 55201.

**63901/73901 Software Engineering Methodologies (3)**

Software process models; modeling languages; software process improvement; requirement analysis and elicitation; advanced systems and architectural design; estimation; verification and validation; reuse; and metrics.

**63902/73902 Software Evolution (3)**

Methods and techniques supporting later life-cycle activities, including software testing and maintenance, reuse and reverse engineering. Prerequisite: CS 6/73901.

**63903/73903 Software Visualization (3)**

Methods and techniques to support the visualization of software to support maintenance, re-engineering and reverse engineering of large scale systems using information visualization and program understanding techniques. Prerequisite: CS 63901.

**64101/74101 Computer Algebra I (3)**

Algorithms for integer and polynomial arithmetic modular and padic algorithms, GCD computation, factorization and resultants. Prerequisite: CS 4/56101.

**64102/74102 Computer Algebra II (3)**

Additional concepts basic to computer algebra including linear algebra algorithms, factoring, parallel algorithms, interface to numerical computing, graphics, algebraic and transcendental extensions, and pattern-matching. Prerequisite: CS 6/74101.

**64201/74201 Advanced Artificial Intelligence (3)**

Additional topics in AI such as logic programming, advanced problem-solving systems, understanding

natural languages, vision, learning, plan-generating systems. Prerequisite: CS 4/54201.

**64301/74301 Pattern Recognition Principles (3)**

Introduction to mathematical pattern recognition, feature selection, distribution-free classification, statistical classification, nonsupervised learning, sequential learning and application. Prerequisite: CS 4/57101.

**64401/74401 Image Processing (3)**

This course covers digital processing of digital imagery. Digitization of TV imagery, noise removal, image enhancement, edge and texture detection, object recognition and scene analysis. Prerequisite: CS 4/56101. Special fee: \$10 per semester.

**65101/75101 Advanced Computer Architecture (3)**

System performance measures, processor implementation, pipelining, system interconnection, memory hierarchy interrupts, stack architecture, vector and multiprocessors. Prerequisite: CS 4/55101.

**65201/75201 Interconnection Networks (3)**

This course provides a comprehensive coverage of interconnection networks in switching principles for high-performance computing and communications. It covers the theory, architecture, implementation and performance analysis of switching systems for multiprocessors, broadband networks and optical communications. Prerequisite: CS 4/55201 or CS 6/75101. Special fee: \$10 per semester.

**65202/75202 Advanced Communication Networks (3)**

This course covers central problems that confront network designers in high-speed networking such as real-time traffic, congestion control, quality of service (QoS), performance analysis, traffic management and Internet routing. Prerequisite: CS 4/55201.

**65203/75203 Wireless and Mobile Communication Networks (3)**

This course examines how wireless systems work and how mobile systems are supported by the underlying network infrastructure. It covers the architecture and the interactions among different functional units in wireless and mobile systems. Prerequisite: CS 55201.

**65207/75207 System Simulation (3)**

Course provides the principles behind simulation techniques for solving problems using computers. It covers the evaluation process of the potential performance of a system with alternative architectural design before it becomes operational. It also covers trade-off analysis techniques for various operating strategies in systems such as computers, networks and devices. Prerequisite: CS 33211 or 45201.

**65208/75208 Distributed Multimedia and Language Systems (3)**

MPEG standards, multimedia formats, 3-D object and movement representation, multimedia storage, QoS maintenance, transmission and buffering, multimedia clocks and synchronization, content based indexing, matching and retrieval of 2-D and 3-D objects, XML based distributed multimedia languages, synchronous and reactive languages. Prerequisite: CS 33001.

**65231/75231 Internet Systems and Applications (3)**

Course initiates the research frontiers of the internet and web technology. It covers selected emergent systems and dominant applications of the internet. The recent offerings included infrastructure, measurements, and security and discussed systems such as caching infrastructure, content distribution network, inter-autonomous system trust management, etc. Prerequisite: CS 55201 and 55231.

**65301/75301 System Modeling and Performance Evaluation (3)**

Provides a detailed study of queuing, network models and their

application to operating systems, computer time sharing, and multi-access systems. Prerequisite: MATH 4/50012 and CS 4/53201.

**66101/76101 Advanced Topics in Algorithms (3)**

Advanced algorithms, fast Fourier transforms, algorithms on trees and graphs, rational and polynomial arithmetic, gcd, factoring, numerical and symbolic computational algorithms, Risch integration algorithm, pattern matching. Prerequisite: CS 4/56101.

**66105/76105 Parallel and Distributed Algorithms (3)**

Introduces and evaluates important models of parallel (synchronous and asynchronous) and distributed computation using basic searching, sorting, graph, matrix, numerical computing and computational geometry algorithms. Prerequisite: CS 4/56101 or 63301.

**66110/76110 Computational Geometry (3)**

Geometric structures are the underlying model of several important applications, including robotics, graphics, CAD/CAM, VLSI layout, wireless networks and information visualization. Computational Geometry studies algorithms for geometric problems. Prerequisite: CS 56101.

**66120/76120 Evolutionary Computation (3)**

An introduction to evolutionary computation techniques for optimization, learning and design. Example topics include natural and artificial evolution, chromosome representations, search operators, co-evolution, constraint handling techniques, niching and speciation, classifier systems and theoretical foundations. Prerequisite: CS 56101.

**66202/76202 Theory of Computation (3)**

Representative problems and algorithms for various complexities, recursion theory basics, complexity such as time, space, nondeterminism; relationships between complexities and hard sets. Prerequisite: CS 4/56101 and

4/56201.

**67101/77101 Advanced Computer Graphics (3)**

The course provides an in-depth study of active research topics in computer graphics. Topics include volume rendering, image-based rendering and modeling, graphics architectures, virtual reality, modeling in computer graphics, nonphotorealistic rendering, computer animation and computer games. Prerequisite: CS 4/ 57101.

**67301 Scientific Visualization (3)**

Discusses the visualization of scientific, engineering and medical data sets. Introduces mechanisms to acquire sampled or computed data and points out methods to transform these data into the visual system. Prerequisite: CS 23021.

**69098 Research (1-5)**

Research or individual investigation. Credits are applied toward degree requirements, with approval, if letter grade or "S" is given. Repeat registration permitted.

**69191 Master's Seminar (1-2)**

Seminar for master's degree students to present and discuss computer science-related research and academics. Master's degree students are required to take at least 2 credit hours for completion of degree and make at least one presentation of project work or research. The course may be taken multiple times but only 2 credits count towards the master's degree. S/U grading. Prerequisite: Admission to the master's program.

**69199 Thesis I (2-6)**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**69299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CS 69199.

**69995/79995 Special Topics in Computer Science (1-3)**

S/U grading.

**89098 Research (1-15)**

Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. S/U grading. Repeat registration permitted.

**89191 Doctoral Seminar (1-2)**

Seminar for doctoral students to present and discuss computer science-related research and academics. Doctoral students are required to take at least 3 credit hours for completion of degree and make at least two presentations of project work or research. This course may be taken multiple times but only 3 credits count toward the doctoral degree. S/U grading. Prerequisite: Admission to doctoral program.

**89199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to doctoral program.

**89299 Dissertation II (1 or 15)**

Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CS 89199.

**89991 Research Seminar in Computer Science (1-3)**

Research seminar on current research in computer science. S/U grading. Prerequisite: special approval.

## **Graduate Career Technical Teacher Education (CTTE)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

### **50093/70093 Variable Topic Workshop in Career Technical Education (1-5)**

Topics of special interest to students desiring to intensify their knowledge in a particular area or areas of career technical education. S/U grading. Prerequisite: special approval.

### **54618 Elements Experience-Based Education (3)**

Examination of various aspects of experience-based education. Includes exploratory, observation, laboratory and paid work experiences.

### **55372 Issues in Career Technical Education Subjects (3)**

Exploration of issues and trends unique to specific career technical education subjects.

### **55377 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.

### **56001 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.

### **56002 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.

### **56015 Methods of Career and Technical Education (3)**

Organization and management of classroom and laboratory; includes purchasing equipment and supplies, safety instruction planning, establishing policies, maintaining records, and individual and group instructional strategies.

### **56017 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.

### **56018 Disadvantaged Youth in Career Technical Education (3)**

Developing an understanding of disadvantaged youth stressing their

characteristics as they pertain to career technical education programs.

### **56019 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.

### **56020 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.

### **56031 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. Prerequisite: Eligible for admission to student teaching and career and technical teacher education (CTTE) major or trade and industrial education (TIED). Corequisite: CTTE 59525.

### **56092 Internship, Practicum and Field Experience in Career Technical Education (2-5)\***

Supervised internship, practicum or field experience in specific occupations. S/U grading. Prerequisite: special approval.

### **56095/76095 Special Topics in Career Technical Education (1-3)**

Specialized offerings in response to emerging or selected program needs in career-technical education. Prerequisite: special approval.



**56096/76096 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. S/U grading. Prerequisite: special approval.

**56192 Practicum: Occupational (1-6)**

Supervised work experience in occupation to obtain initial experience or to update skills. S/U grading. Prerequisite: special approval.

**59525 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.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CTTE 60199.

**66001 Principles and Practices in Career Technical Education (3)**

Study of principles, current practices and trends relating to modern programs of career-technical education and relationships to the total plan of public education.

**66003 Analysis of Human Resource Development (3)**

Provides analysis of human resource development from global, national, state and local perspectives including social, economic, political and demographic influences. Includes the application of the contemporary workforce to engage in lifelong learning to keep career and technical skills updated.

**66004 Program Evaluation in Career Technical Education (3)**

Designed to provide the skills and knowledge necessary to evaluate the effectiveness and efficiency of career-technical education curriculum programs personnel.

**66005 Special Populations in Career Technical Education (3)**

A study of the special populations student in career technical education programs emphasizing characteristics, curriculum modification, instruction and job placement.

**66095/76095 Special Topics in Career-Technical Education (1-3)**

Specialized offerings in response to emerging or selected program needs in career-technical education.

**66096/76096 Individual Investigation in Career Technical Education (1-3)**

An investigation into problems and topics in career-technical education. The investigation is pursued on an individual basis with an assigned faculty member. S/U grading. Prerequisite: special approval.

**86098 Advanced Research in Career Technical Education (1-15)**

Student pursues an individual research project on a specialized career-technical education topic with approval and under the direction of an instructor. S/U

grading; IP permissible. Prerequisite: special approval.

**Graduate Cultural Foundations (CULT)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Cultural Foundations (CULT)

*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**50093/70093 Variable Title Workshop in Educational Psychology and Foundations (1-4)**

Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. For 50093 only, may be repeated once for total maximum credit of 6 hours. S/U grading.

**59570 Social Foundations of Multicultural Education (3)**

Analysis of historical, social and ideological forces that relate to current educational policies and practices in multicultural education, both in school and non-school settings.



**60199 Thesis I (2-6)**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.  
Prerequisite: CULT 60199.

**65530 Foundations of Education and Human Services (3)**

Inquiry into the assumptions and implications of educational policies and practices in education and human service settings through the application of historical, philosophical and sociological perspectives.

**66531 Professional Practice in a Multicultural Society (3)**

Interdisciplinary inquiry into issues of pluralism and its influence on professional practice in education and human service settings. Cross-cultural interaction will be analyzed; reflection on developing culturally responsive professional practice.

**65532 Ethics in Education and Human Services (3)**

An examination of ethics in education and human services through foundational study and issue analysis; strong case study and professional application emphasis.

**69530/79530 Multicultural Educational Theories and Scholarship (3)**

An Investigation of multicultural theories in education, the social sciences and humanities as articulated in the works of major scholars. Approaches to research and scholarship and contemporary issues in public discourse is explored. Prerequisites: CULT 65530 and 65531.

**69543/79543 Higher Education in the United States (3)**

Examines the historical, philosophical, social, political and economic roots of current programs, policies, practices and commitments of institutions of higher education in the United States.

**69560/79560 Modern Philosophical Theories of Education (3)**

Introduction to philosophy of education. Controversies as to nature and function of contemporary education.

**69564/79564 History of American Education (3)**

European origins and American innovations in colonial education, rise of common school, completion of educational ladder. Emphasis is on present status and recent developments.

**69565/79565 History of Western Education (3)**

Educational ideals and practices of European and Western civilizations in their historical contexts. Evaluation of their influence on present educational thought and practice.

**69567/79567 History of Higher Education (3)**

(Cross listed with HIED 66600/76600) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American Higher Education from the 17th through the 20th centuries. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American culture.

**69568/79568 Great Ideas in Education (3)**

An examination of major influential ideas in education through original sources from Plato to Skinner. Prerequisite: approval of instructor.

**69569/79569 International Education: Foundational Issues (3)**

An introductory seminar to explore current foundational issues and challenges in education worldwide (non-formal, formal PK-advanced post-secondary education). Students gain an understanding of the socio-political, historical context of education worldwide and implications for local policy formation. An international-comparative approach connects and integrates cross-cultural literature, theoretical and research scholarship, on the impact of world dynamics on education. Students also explore the impact of education on economies and social compacts worldwide, with attention to inequalities or marginalities based on region, social status, ethnicity, race, religion, gender and disability.

**69570/79570 Multicultural Education: Theory and Policy (3)**

Theoretical foundations of cultural pluralism, structural marginalization processes, knowledge construction, equity pedagogy and praxis in intercultural relations, democratic change processes and policy addressing inequities in institutional practices.

**69571/79571 Globalization and Education (3)**

A multi-disciplinary exploration of the impact of globalization/ localization in the delivery and uses of education, and the dynamics of power and resistance in globalized education.

**69575/79575 Anthropology and Education (3)**

Students explore the contributions that cultural and social anthropologists have made to the

study of education broadly conceived, focusing particularly on studies addressing the interrelationships among education, culture and forms of social inequity. Through engaging in critical readings of classic and contemporary educational ethnographics, students explore the myriad ways in which “culture” has been theoretically conceptualized, as well as the implications of those conceptualizations for educational inquiry and practice.

**69591/89591 Seminar in Cultural Foundations (1-5)**

Variable topic seminar for advanced study of specialized topics and areas; in cultural foundations; emphasis on theory and research findings as related to educational practice. Prerequisite: special approval.

**69592/89592 Advanced Practicum and Internship in Cultural Foundations (2-6)**

Supervised program in field setting involving application of theories, principles and methodology in cultural foundations of education; planned with and supervised by graduate faculty member. Prerequisite: special approval. S/U grading; IP permissible.

**69595/89595 Special Topics in Cultural Foundations (1-3)**

Specific topic course offering in response to emerging student or program needs in cultural foundations of education.

**69596/89596 Individual Investigation in Cultural Foundations (1-3)**

Students pursue an individual project on a specific topic in cultural foundations of education with approval and under direction of instructor. Prerequisite: special approval. S/U grading; IP permissible.

**69598/89598 Research in Cultural Foundations (1-15)**

Students pursue an individual research project on a specific topic in cultural foundations of education with approval and under direction of instructor. Prerequisite: special approval. S/U grading; IP permissible.

**79510 Philosophy of Education (3)**

Analysis of selected philosophies of education through examination of philosophical problems of education. Prerequisite: CULT 6/79560 or 6/79568.

**79552 Legal Foundation of Education (3)**

The impact of the federal constitution, statutes and case law on public education is studied. Historical intent and current application of related laws are included.

**80085 Legal Research in Education (3)**

(Cross-listed: EDAD 80085) Methods of legal research, case analysis and a “uniform system of citation” are studied. Prerequisite: CULT 79552.

**80090 Doctoral Residency Seminar (3)**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues, research and trends in education in multiple settings.

**80091 Seminar: Great Issues in Education (1-3)**

Interdisciplinary review of current great issues in education that are catalogs for presentation after discussion with membership of the course.

**80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: CULT 80199.

**85535 Interprofessional Studies (3)**

Comprehensive analysis of issues affecting professional practice in education and human service resource settings. Examination of questions related to interprofessional collaboration on policy, research and practice.

**89571 Comparative and International Education (3)**

Comparative analysis of contemporary educational policies and structures in large- and small-scale societies throughout the world.

**89581 Proseminar in Cultural Foundations (3)**

Doctoral seminar to familiarize Ph.D. students with cultural and social foundations of education as a field of study so that they may locate their inquiry within the relevant knowledge base and academic disciplines that comprise the cultural foundations of education.

**89582 Social Perspectives of Education (3)**

Examines selected social factors that influence the development of educational policies and patterns of research relating to school and non-school educational settings.

## **Graduate Early Childhood Education (ECED)**

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*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**50093/70093 Variable Title Workshop in Early Childhood Education (1-5)**  
S/U grading.

### **50114 Teaching Science in the Early Years (3)**

This course examines methods of teaching the processes of science. Attention is given to methods, equipment, safety and planning. Prerequisite: Graduate standing in the Master of Arts in Teaching (MAT) program.

### **50142 Home, School and Community Relations (3)**

Approaches to parent and community involvement in the education and welfare of children. Understanding of role of community agencies and organizations.

### **50145 Music and Rhythms in Preprimary Education (3)**

Comprehensive coverage of music

and rhythms for preprimary child. Intended for early childhood education majors or other persons desiring additional work in music with preprimary children. Prerequisite: approval of instructor.

### **50146 Teaching with Microcomputers: Early Years (3)**

Developing competency in teaching with microcomputers in pre-kindergarten through grade three. Includes laboratory experience in computerized lessons and management and programming in LOGO, field testing of computer-related materials and a research review.

### **50147 Teaching Mathematics: Early Years (3)**

Instructional psychology and materials for effective teaching of mathematics in pre-kindergarten through grade three with a theoretical emphasis on cognitive development. Special fee: \$10 per semester (subject to change).

### **50151 Guidance of Young Children (3)**

Principles and practices of appropriate guidance for young children: intervention strategies, resources and materials for guidance.

### **50153 Organization and Supervision of Early Childhood Centers (3)**

Basic guidelines for establishing and supervising early childhood settings for infants, preschool and school-age children.

### **60101/70101 Constructivist Teaching in Early Childhood Classrooms (3)**

Theorists and researchers with a constructivist orientation will be examined in relationship to teacher beliefs. The course will focus on constructivist practices emphasizing child-sensitive curriculum and

teaching practices.

### **60102/70102 Developing a Balanced Literacy Program (3)**

An examination of own teaching practice focusing on assessment strategies to inform decision-making for individual children and evaluation strategies to fine tune a balanced literacy program.

### **60111/70111 Auxiliary Services for Early Childhood Education (2)**

Current public and private programs for young children as resources for preschool and primary teachers. Methods of initiating and implementing new programs.

### **60112/70112 Humanities for Children (2)**

Relevance of humanities as applied to education of young children.

### **60113/70113 Preschool Education (3)**

An in-depth study of curriculum development in preschool programs.

### **60150 Curriculum and Intervention in Early Childhood Services (3)**

(Cross-listed with SPED 63950) Overview/comparison of early childhood service approaches: history/issues delivering services; developmentally appropriate practice; and environmental arrangement, how to modify curriculum. Prerequisite: special approval.

### **60151/70151 Sociomoral Environment in Early Childhood Education (3)**

Children's social and moral development will be explored in relationship to the context of primary classrooms. Children's social problem-solving, friendship-making, guidance strategies and interventions, building and facilitating classroom communities,

and promoting a caring classroom will be the focus of this course.

**60152/70152 Application of Selected Theoretical Principles to the Development of Young Children (3)**

Examination of theories pertaining to child development that have special relevance in understanding and meeting developmental needs of young children. Application of selected theoretical principles to child development.

**60153/70153 Play in Childhood (3)**

Examination of the play of children from various theoretical perspectives, the role of the play in development, strategies for facilitation of children's play in various settings.

**60154/70154 Practical Applications Birth to Five (4)**

(Cross-listed with SPED 6/73953)

Practical application of recommended practices for children birth to five. Observation of children in natural environment. Plan/evaluate intervention with families/professionals. Prerequisite: special approval.

**60155/70155 Infant and Toddler Development and Education (3)**

Development from birth through age two. Application of theories to understand infant and toddler behavior and developing infant/toddler programs.

**60156 Foundations in Early Childhood Services (3)**

(Cross-listed with SPED 63956)

Issues facing children within family/society; history of early childhood services; theoretical perspectives; implications of childhood disabilities; recommended assessment, intervention and evaluation.

**60157 Assessment/Teaching Exceptional Infants and Young Children (3)**

Cross-listed with SPED 63957.

Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress. Prerequisite: special approval.

**60158/70158 Reconceptualizing Early Childhood Curriculum (3)**

Course examines post-modern understanding of early childhood education curricula in relationship to teaching (instruction-oriented teaching vs. pedagogy-based teaching). Social, historical, legal, political, international and cultural issues that have affected early childhood education curricula practices will be critically examined.

**60159 Family Professional Collaboration in Early Childhood (3)**

(Cross-listed with SPED 63952)

Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing.

**60160 Typical and Atypical Development in Young Children (3)**

(Cross-listed with SPED 63955)

Overview of typical/atypical development pathways age three to grade three: theories of behavior; implications of atypical development on play/learning; development within ecological framework. Prerequisite: special approval.

**60161/70161 Parenting Education: Supporting the Parenting Process (3)**

Exploration of parenting processes through the life span with particular

focus on how school and non-school professionals support families and children.

**60162 Practical Applications Five to Eight (4)\***

(Cross-listed with SPED 63954)

Application of recommended practices for children five to eight. Observation of children in natural environment; plan/evaluate intervention collaboratively. 60 clinical/field hours. Prerequisite: special approval.

**60164/70164 Appropriate Assessment in Early Childhood Education (3)**

Formative evaluation that informs curriculum planning for children age three to grade three. Seamless assessment of both emergent academic abilities and specific content areas such as math, science and literacy will be examined. Prerequisite: graduate standing in Master of Arts in Teaching (MAT) program.

**60165/70165 Principles of Social Learning Applied to Early Childhood Education (3)**

Discussion, evaluation and application of contemporary theory and research specifically related to the modification of behavior within the context of the developmental demands of early childhood. Prerequisite: special approval.

**60166/70166 Observational Analysis of Classroom Interactions (3)\***

A practicum in construction and application of pupil observational assessment instruments for classroom use. Developmental and social psychology research is used to develop assessment items.

Emphasis is on analysis of social interaction patterns through narrative and checklist recording, teacher rating scales and sociometric evaluation. Prerequisite:

special approval.

**60167/70167 Language and Literacy: Understanding Development (3)**

The development of language in children from birth through age eight with a focus on the process of typical language development and the diversity of multicultural language. Topics specifically related to classroom teaching include the assessment of language delays and disorders and strategies for connecting oral language to literacy in preschool. Corequisite: ECED 60152.

**60168/70168 Cognitive Development in Early Childhood Education (3)**

Survey of changes in child's systems of processing information from birth through primary school years, and application of these theoretical principles to programs for young children.

**60192 Early Childhood Services Intervention Methods/Internship (5)\***

Integration of specific strategies for working with children birth to eight with intensive needs (cerebral palsy, spina bifida, autism) with internship. 90 field/clinical hours. Prerequisite: special approval.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ECED 60199.

**67291/77291 Seminar in Early Childhood Education (1-4)**  
**67292/77292 Practicum and Internship in Early Childhood (1-10)\***

S/U grading; IP permissible.

**67295/77295 Special Topics in Early Childhood Education (1-5)**

**67296 Individual Investigation in Early Childhood Education (1-5)**  
S/U grading; IP permissible.

**67298 Research in Early Childhood Education (1-15)**

S/U grading; IP permissible.

**80291 Advanced Seminar in Early Childhood Education (1-4)**

Advanced seminar in ECED. Prerequisite: special approval.

**80292 Advanced Practicum and Internship in Early Childhood Education (1-10)\***

Advanced Practicum and Internship in ECED. Prerequisite: special approval.

**80295 Special Topics in Early Childhood Education (1-5)\***

Special topics in ECED. Prerequisite: special approval.

**80296 Individual Investigation in Early Childhood Education (1-5)**

Individual investigation in ECED. S/U grading; IP permissible. Prerequisite: special approval.

**80298 Research in Early Childhood Education (1-15)**

Research in ECED.

**Graduate Economics (ECON)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**52040 Introduction to Econometrics (3)**

Application of economic models, probability distributions, estimation, estimators, and regression and correlation as tools in economic analysis.

**52045 Mathematical Economics (3)**

Systematic exposition of mathematical techniques and their application to economic analysis. Among topics that may be covered are: sets, relations/functions, matrix algebra, differential and integral calculus and optimization techniques.

**52065 Problems of Monetary and Fiscal Policy (3)**

Analysis of objectives, techniques and economic effects of monetary and fiscal policies.

**52068 Industrial Organization and Public Policy (3)**

Theoretical, empirical and critical examination of structure, operation and performance of industrial markets in American economy.

**52076 Economic Development (3)**

Analysis of nature and significance of barriers to and future potential for economic development of a nation. Special emphasis on theories and strategic factors pertaining to economic growth.

**52078 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.

**52080 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.

**52081 Urban Economics (3)**

Application of economic principles to urban spatial patterns, economic development, and public policy in housing, transportation, pollution, welfare, etc.

**52083 History of Economic Thought (3)**

Economic thought from Mercantilist Period to early 20th century, especially emphasizing theories of Classical school, Marginalists, Marx and Neoclassicists.

**52085 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.

**52086 Economics of Health Care (3)**

Overall objective is to use economic analysis to understand and evaluate what has and is happening to the health care profession and current health care policies under consideration. Topics include issues such as Medicare, health care reform, HMOs and increasing costs in health care. Prerequisite: ECON 62022.

**52087 Law and Economics (3)**

A study of the economic foundations of the legal system and the impact of legal systems on market behavior. Prerequisite: special approval.

**52291 Variable Content Seminar in Economics (1-4)**

Various special seminars will be announced in the Schedule of Classes under this course number. Repeatable for a total of 12 hours. Prerequisite: special approval.

**52293 Variable Topic Workshop in Economics (1-6)**

Various special workshops will be announced in the Schedule of Classes under this course number. Repeatable for a total of 18 hours. S/U grading. Prerequisite: special approval.

**52295 Special Topics in Economics (3)**

Various special topics will be announced in the Schedule of Classes under this course number. Repeatable for a total of 9 hours. Prerequisite: special approval.

**52297 Variable Topic Colloquium in Economics (1-3)**

Various special colloquia will be announced in the Schedule of Classes under this number. Repeatable for a total of 9 hours. Prerequisite: special approval.

**62010 Survey of Economics (3)**

Survey of basic economic concepts and methods of analysis of both micro- and macroeconomics. Emphasis is placed on the use and relevance of economic concepts and tools in business decision-making.

**62015 Economics of Information (3)**

Introduction to micro-economic theory and decision-making and its applications to the information economy. Overview of the economics of information. Consumer behavior and production theory; the demand for information; information as a factor of production; information cost and pricing. Case studies in the information industry.

**62021 Business Conditions Analysis and Public Policy (3)**

(Cross-listed with BAD 72021) Analysis of forces determining economic growth, employment, inflation and international competitiveness, with emphasis on understanding the business cycle and government stabilization policies. Pre-/corequisite: BAD 64005.

**62022 Managerial Economics (3)**

(Cross-listed with BAD 72022) Uses economic theory and quantitative methodologies to develop decision-making skills that enable managers of local, national and multinational companies to evaluate problems and allocate resources efficiently. Prerequisite: BAD 64005, and MATH 11012, MATH 12002 or ECON 62010.

**62050 Micro-economic Theory I (3)**

(Cross-listed with BAD 72050) Comprehensive analysis of methodology of economics, consumer behavior, production and costs, the firm, markets and welfare economics. It would be useful if the student had some facility in integral and differential calculus. Prerequisite: ECON 62022.

**62051 Macroeconomic Theory I (3)**

(Cross-listed with BAD 72051) Analysis of the determination of the level of income, employment, inflation, economic growth, consumption, investment, money demand and supply, the international sector, and economic policy are discussed. Prerequisite: ECON 62021 and ECON 62022.

**62054 Econometrics I (3)**

(Cross-listed with BAD 72054) Introduction to problems and methods of the empirical estimation of economic relationships.

**62055 Econometrics II (3)**

(Cross-listed with BAD 72055) Covers generalized linear regression, mixed estimation, simultaneous equation systems, their identification and estimation by single equation and systems estimation. Prerequisite: ECON 62054.

**62056 Time Series Analysis (3)**

Covers various linear and non-linear time series models, market risk and value at risk (VAR). Students will gain hands on-experience with all models learned in the course. This course uses advanced analytical software and hardware on the

financial engineering trading floor.  
Prerequisite: special approval of instructor.

**62061 Monetary Theory and Policy (3)**

(Cross-listed with BAD 72061) A study of the nature and definition of money, its relationship to prices, output, employment and interest rates, and problems related to the conduct of monetary policy.  
Prerequisite: ECON 62021.

**62071 Labor Economics (3)**

(Cross-listed with BAD 72071) Theoretical and applied analyses of wage determination, the supply of skills, labor market discrimination, and the effects of trade unions and government policies. Prerequisite: ECON 62022.

**62075 International Trade (3)**

(Cross-listed with BAD 62075) Study of modern international trade theory and policy, including free trade areas, international trade organizations, current issues in international trade, and the effect of international trade on domestic policy. Prerequisite: ECON 62021 and ECON 62022.

**62076 International Finance (3)**

(Cross-listed with BAD 72076) Study of the international monetary relations between nations, including the determination of exchange rates, managed exchange rate policies, balance of payments crises, optimum currency areas and international capital flows. Prerequisite: ECON 62021.

**62077 Economic Problems of Developing Areas (3)**

(Cross-listed with BAD 72077) In-depth analysis of selected topics and issues in development economics. Prerequisite: ECON 52076.

**62078 Seminar in International Economics (3)**

(Cross-listed with BAD 72078) Analysis of recent contributions and current problems in international trade and finance. Prerequisite: ECON 62075 and 62076.

**62092 Internship in Economics (3)**

Supervised practical experience in economics. Eligibility requirements available from the internship coordinator. S/U grading. Prerequisite: Admission to the M.A. in Economics program and permission.

**62096 Independent Study (1-3)**

Independent study on a particular project or sequence of subjects. Maximum of 6 semester hours of work may be earned in independent study, although no more than 3 hours in any one semester. IP permissible. Prerequisite: Special approval.

**62098 Research (1-15)**

Research for master's students. May apply toward degree requirements if approved in advance by department. Repeat registration permitted.

**62180 Regional Economics (3)**

(Cross-listed with BAD 72180) Examines techniques of regional economic analysis with the object of promoting understanding of interregional disparities in developed nations and policies for alleviating problems arising from disparities.

**62182 Public Expenditure and Cost Benefit Analysis (3)**

(Cross-listed with BAD 72182) Theoretical and applied aspects of public expenditure and cost benefit analysis. Uses economic theory to appraise public expenditure alternatives in advanced and developing countries. Prerequisite: ECON 62022.

**62199 Thesis I (2-6)**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval of advisor.

**62299 Thesis II (2-6)**

Thesis students must continue registration each semester until all degree requirements are met. S/U

grading; IP permissible.  
Prerequisite: ECON 62199.

**64004 Quantitative Methods in Business Administration I (3)**

(Cross-listed with BAD 74004) Introduction to fundamentals of matrix algebra, differential calculus and linear programming. Both algebraic and transcendental functions are included in discussion.

**Graduate Educational Administration (EDAD)**

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Graduate Educational Administration (EDAD)

*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**50093/70093 Variable Title Workshop in Educational Administration (1-5)**

S/U grading.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.  
Prerequisite: EDAD 60199.

**65200/75200 The Development and Administration of Charter Schools (3)**

Provides students with an understanding of the charter schools movement in America along with the basic skill sets required to administrate charter schools. Topics will span from the history of the charter schools movement to various administrative models in the field. Prerequisite: Major in Educational Administration - K-12 Leadership (EAKL), Higher Education and Student Personnel Administration (EAHE), or Educational Administration-Higher Education (EDHE).

**66492/76492 Internship in Educational Administration (3-6)\***

A field-based internship requiring a separate project as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship. S/U grading; IP permissible.

**66515/76515 Facilities Planning and Administration (3)**

Overview of facilities planning and administration, including architectural/construction management, the educational program, restoration and maintenance.

**66517/76517 Administration and Supervision of Special Education (3)**

Administration of educational programs for exceptional children: improvement of teacher competencies; function of special education supervisors; and special

education operations at a local, state and national level.

**66518/76518 Law and Special Education (3)**

Constitutional, statutory and case law involving handicapped infants and students; special education teachers, administrators and parents are studied.

**66520/76520 School Law for Teachers and Principals (3)**

Selected principles of constitutional, statutory, case and common law affecting the administration of schools generally and Ohio schools specifically.

**66522/76522 Public School Finance and Economics (3)**

Analysis of national, state and local problems of collection, custody and expenditure of public school funds. Prerequisite: EDAD 6/76526

**66525/76525 The Educational Principalship (3)**

Organizing and administering elementary, middle-level and secondary schools. Must register concurrently for EDAD 6/76592. Prerequisite: EDAD 6/76526 ; 16 hrs of Ed Admin.

**66526/76526 Fundamentals of Educational Administration (3)**

Examines theory and practice essential for administration. Skills and understanding are developed in theory, goal-setting, staff development.

**66527/76527 School Finance for Building Administrators (3)**

Identification of the responsibilities of the school building administrator related to all financial operations in the school building; included are the budget process and development, student accounts, the purchase order process, and fundraising and school groups. Prerequisite: Major in Educational Administration - K-12

Leadership (EAKL), Higher Education and Student Personnel Administration (EAHE), or Educational Administration-Higher Education (EDHE).

**66528/76528 The School Business Manager and School Treasurer (3)**

Identification and description of the roles, responsibilities and activities of the school Business Manager and the school Treasurer; overview of the interface in school district operations.

**6/76529 Leading for Social Justice (3)**

Centers on investigating a broad research agenda on leading for social justice within educational leadership. Provides a context for candidates to establish strong connections between what it means to lead and the primary concerns for learning and equity, which are associated with increased performance and effectiveness for American education. Candidates engage in concepts such as equity audits, border culture, hegemony, moral transformation and other concepts aligned with leading 21st century schools. Such concepts encourage school leaders to reconsider the influence of wider social, political, cultural and economic contexts in creating transformative and revolutionary schools.

**6/76531 Instructional Leadership (3)**

Focuses on the administrative role pertaining to the leadership, management, and evaluation of quality and effective school classroom instruction. Building administrators are responsible for providing the resource for effective instruction, which result in student learning. The key to effective instruction at any level requires a solid grounding in curriculum



theory and design. Designed to provide the tools that administrators need to oversee the development, production, monitoring and evaluation of instructional methods and strategies.

**66533/76533 Central Office Administration (3)**

Analyzes roles and responsibilities of central office personnel with an emphasis on curriculum, pupil, and support services as impacted by current educational policy, and practice and focused on impacting the achievement of all students. Prerequisite: Major in Educational Administration - K-12 Leadership (EAKL), Higher Education and Student Personnel Administration (EAHE), or Educational Administration-Higher Education (EDHE).

**66534/76534 The Superintendency (3)**

Focuses on major responsibilities of board of education and superintendent. Prerequisite: EDAD 6/76526.

**66536/76536 The Administrator's Role in Curriculum Development (3)**

Focusing on the administrative role pertaining to the development, management and evaluation of a quality and effective district/school/classroom curriculum. Prerequisites: major in Educational Administration -K-12 Leadership (EAKL), Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE).

**66537/76537 The Principal as Educational Leader (3)**

Focus on the role of the principal as a leader for understanding the societal and cultural context of education; teaching and learning processes; ethical and moral issues

for administrators; and stakeholder empowerment for school improvement. Prerequisite: EDAD 6/76526.

**66538/76538 Administration of School Culture, Politics and Reform (3)**

Focuses on administrative roles in assessing, leading, developing and reforming school culture. Centers on building and district administrators, who are responsible for providing the cultural frameworks and context of school culture through politics and reform efforts. The key to effective school reform requires a solid understanding of micropolitics as well as policy and practice at a state and national level. Designed to provide educational leaders with tools to assess school and district-wide cultural practices and norms as well as the skill sets to disrupt and change them.

**66540/76540 Women in Leadership (3)**

An interactive study of women's development and its effect on their dispositions toward leadership. Provides theoretical contract to traditional management theory.

**66542/76542 Principles and Techniques of Supervision (3)**

Principles and techniques needed by administrative specialists and supervisors are given. Research findings include changing human relations, group processes, communications, observations and conferencing skills.

**66543/76543 School Administration in Urban Settings (3)**

This course is designed to provide students with opportunities to discuss and investigate the unique challenges of leading inner-city schools. Issues of focus include transportation, staffing,

extracurricular support for students and more.

**66544/76544 Community Relations and Communication Skills (3)**

Centers on encouraging school leaders to consider the way in which children's learning is influenced by behaviors and perspectives of family members, school personnel and members of the larger community. Educators and school leaders have much to gain by deepening their understanding of how students learn from their family and cultural backgrounds, which fosters more inclusive school practices. Candidates investigate the influence of such collaborations and their role in upholding the ethical responsibility to promote children's welfare.

**66591/86591 Seminar in Educational Administration (1-4)**

**66595/76595 Special Topics in Educational Administration (1-3)**

Specialized offerings in response to emerging or selected program needs.

**66596/76596 Individual Investigation in Educational Administration (2-4)**

Projects as assigned. IP permissible. Prerequisite: special approval.

**66598/86598 Research in Educational Administration (2-8)**

Projects as assigned. S/U grading. Prerequisite: special approval.

**66602/76602 Technology Leadership in Education (3)**

Prepares educational administrators to be leaders in the advancement of the appropriate integration of technology. Current and prospective administrators increase their understanding of how technology can be used as a tools for teaching, learning, assessment, management,

planning and communications. The development and implementations of vision for educational technology is addressed, as well as social and ethical issues.

**66747/76747 Personnel (3)**

Administration of education staff at building and central office levels; scope and depth of supervisory responsibilities; and development of evaluation techniques.

**76523 Advanced Education Finance (3)**

Advanced study of alternative plans for financing education, study of comparative educational finance structures (national basis), equity, parity, relationship of finance of higher education and elementary/secondary education, role of the federal government and private enterprise in the financing of education. Prerequisite: EDAD 76522 or 76659.

**76539 Communication Skills for Educational Administrators (3)**

To increase knowledge and skill required to develop and maintain positive relationships between school and public served. Skills for effectively dealing with difficult individual conflicts are practiced.

**80080 Dissertation Preparation Seminar (3)**

Gain an in-depth understanding of the dissertation-writing process. Complete a dissertation proposal. S/U grading; IP permissible. Prerequisite: special approval.

**80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation II (1 OR 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EDAD 80199.

**86558 Advanced Educational Leadership (3)**

This advanced-leadership seminar is designed to provide the opportunity for students to gain additional knowledge and skills in educational leadership, to improve research, writing and teaching skills; to share and discuss leadership knowledge and insights with their peers and to defend their work before their peers. Prerequisite: EDAD 6/86657.

**86598 Research in EDAD (2-8)**

Projects as assigned. Prerequisite: special approval.

**Graduate Educational Psychology and Foundations (EDPF)**

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*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**60094/70094 College Teaching (3)**

Discusses major aspects of teaching in higher education, including such topics as students' philosophy of teaching, principles of adult learning, instructional strategies, students' assessment and others.

**78903 Life Span Development: Childhood and Adolescence (3)**

Dimensions of human development and learning, causal factors and

research findings which carry implications for educators in various settings; focusing on birth through adolescence.

**79559 Cultural Foundations of Education (2)**

Inquiry into the assumptions and implications of educational policies and practices in human service professions through the application of historical, philosophical and sociological perspectives.

**79562 Foundations of Modern Education (3)**

Introduction to philosophy of education. Controversies as to nature and function of contemporary education.

**Graduate Environmental Health Sciences (EHS)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50196 Individual Investigation in Environmental Health Sciences (1-3)**

Individual graduate investigation or research in areas related to environmental health sciences. Repeat registration permitted for a maximum of 6 credit hours. IP permissible. Prerequisite: special approval.

**52018 Environmental Health Concepts in Public Health (3)**

Provides a comprehensive overview of the core topics in environmental health as related to public health.

**53009 Emerging Environmental Health Issues and Response (3)**

Provides an overview of emerging environmental health issues that will impact the public's health.

**53012 Environmental and Occupational Health (3)**

Survey of major concepts and issues relating health and safety in the workplace. Emphasis is on the application of public health principles and decision-making practices used by various worker populations for the prevention of injury and disease on the job. Protective equipment, hazardous conditions, environmental toxins, risk assessment and prevention science guides discussions.

**63010 Applied Risk Assessment (3)**

Introduces the student to environmental and occupational hazards, assessing the risks associated with hazard exposure. Standard principles of risk assessment are emphasized including methods of hazard identification and regulation, quantitative exposure measurement, dose and toxicity relationships and risk management. Analysis of public policy regulatory guidance and health advisory watchdog recommendations are evaluated. Prerequisite: EPI 52017.

**63011 Application of Risk Analysis in Environmental Health (3)**

Students are introduced to methods in risk analysis that are applied by U.S. federal, state, and local agencies in their assessment of chemical toxicants. Linkages between risk assessment, risk management, and risk communication will be studied as components of this process, along with issues and controversies in the analysis of environmental health risks. Prerequisite: EPI 52017.

**Graduate Exercise, Leisure and Sport (ELS)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Exercise, Leisure and Sport (ELS)

*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**63094/73094 College Teaching in Exercise, Leisure and Sport (2)**

Guided teaching experiences in educational settings. Repeat registration permitted. Prerequisite: special approval.

**65025 Contemporary Issues in Sport Pedagogy (3)**

Investigation and study of current problems, issues and trends in sport pedagogy. Prerequisite: CI 65044 and 65055.

**65192/75192 Internship in Physical Fitness Testing Programs (2-8)**

Field experience in physical fitness programs and testing in Kent State adult fitness program cooperating agencies. S/U grading; IP permissible. Repeat registration permitted. Prerequisite: special approval.

**73020 Knowledge Generation in Exercise, Leisure and Sport (3)**

This course examines issues involved in the generation, organization, dissemination, and use of scientific and scholarly knowledge in exercise, leisure and sport.

**73052 Advanced Research Design and Statistics in Exercise, Leisure and Sport (3)**

Advanced topics in research and statistical analysis with computer

applications in exercise, leisure and sport. Prerequisite: special approval.

**75097 Colloquium in Sport and Recreation Studies (3)**

Consideration of current scholarly issues in sport and recreation studies related to potential student research topics. Repeatable with permission.

**Graduate English (ENG)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate English (ENG)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**51002 Computers in Second Language 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.

**51009 Student Teaching (9)**

Supervised practicum in the teaching of ESL, grades P-12. Prerequisite: Admission to student teaching.

**56201/76201 Nineteenth-Century European Literature (3)**

Major European writers of the 19th century: Romanticism, Realism, Naturalism, Symbolism and related movements.

**56203/76203 Twentieth-Century European Literature (3)**

Major European writers of the 20th century: Modernism, Postmodernism and related movements.

**61000 Introduction to Research and Pedagogy in Critical Reading (3)**

Introduction to contemporary methods of literary and cultural

criticism and to the profession of teaching English in college.

**61094 Introduction to Research in the Teaching of College Writing (3)**

Using the Kent State program as an example, the focus will be on teaching composition, literature and language, along with the needed planning and evaluation.

**62291/72291 Seminar: British Literature 1800 to Present (3)**

In-depth treatment of various topics from the Romantic and Victorian periods and the 20th century.

**63001/73001 Methodology of TESL (Teaching English as a Second Language) (3)**

The theory and methodology of teaching English as a second language.

**63031/73031 Schools of Linguistics (3)**

Discussion of major trends in linguistic analysis and theory. Course centers on examining central questions, goals and methods of major schools of linguistics.

**63032/73032 Functional Linguistics (3)**

Examination of function as it occurs in the description of different levels of linguistic systems. Investigation of the theme/rheme dichotomy and method of functional analysis.

**63033/73033 Second Language Acquisition (3)**

(Cross-listed with MCLS 60661)  
This course surveys the major theoretical approaches to language acquisition, concentrating on second language acquisition and the relationship between acquisition/learning research and second-language teaching approaches.

**63034/73034 Literate Practices and Sociolinguistics (3)**

Discussion of sociolinguistic approaches to understanding literacy, language in workplaces and classrooms, and societal multilingualism. Survey of trends in sociolinguistic thought and method.

**63037 Pragmatics of Conversation (3)**

Theories of pragmatics, conversational structure and strategies with practical applications for teaching conversation strategies to foreign second language learners.

**63038 Teaching Literature and Culture (3)**

(Cross-listed with MCLS 60622)  
Students will explore theories of literature and culture teaching, as well as strategies for teaching literature and culture.

**63039 Second Language Curriculum and Testing (3)**

(Cross-listed with MCLS 60663)  
Students will study second language curriculum and testing design and current issues, including oral proficiency testing.

**63040 Linguistics for the Language Professions (3)**

(Cross-listed with MCLS 60601)  
Students will be introduced to basic linguistic issues and how these relate to the language professions. Course focuses on functional principles, especially on options to express textual, interpersonal and ideational/experiential meaning.

**63041 Descriptive Grammar of English (3)**

This course provides a description of English syntax and morphology. Presentation of material will be through rules and exposure to grammatical forms in meaningful contexts.

**63098 Research in Second Language Pedagogy (3)**

(Cross-listed with MCLS 60698)  
Students will learn how second-language research influences their teaching practices by studying research texts and recent journal articles and conducting a research project. Prerequisite: special approval.

**63391/73391 Seminar: Linguistics (3)**

In-depth treatment of various topics from modern linguistics, including phonology, morphology and various

generative grammars.

**64070/74070 Writing Poetry (3)**

Advanced workshop in creative writing.

**64071/74071 Writing Fiction (3)**

Advanced workshop in the writing of fiction.

**65011/75011 Introduction to the Field of Writing: Theory Research/Practice (3)**

Survey introduces writing studies from various perspectives: rhetorical and composition theory, disciplinary and professionalization, several 20th-century theoretical influences and Soviet activity theory.

**65012/75012 Reading and Interpreting Research on Writing (3)**

Course focuses on how to read critically and interpret published research by examining the principle means through which "knowledge" is constructed in writing research.

**65022/75022 Rhetorical Theory: Greek and Roman (3)**

Course examines classical Greek and Roman rhetorical traditions and, to a lesser extent, their reappearance in contemporary rhetorical theories and composition pedagogies.

**65023/75023 Rhetorical Theory: 18th, 19th and 20th Centuries (3)**

Course surveys 18th-, 19th- and 20th-century developments in rhetorical theory and their influences on contemporary pedagogical and theoretical practices.

**65026/75026 Language and Human Sciences (3)**

Course examines how language figures in the frameworks of scholars in various human sciences and the relevance of these approaches for studying language and writing.

**65027/75027 Role of Composition (3)**

Study of composition's contributions to writing studies such as writing pedagogy/theory, writing

technologies, assessment, process research, WAC, program administration, rhetoric and cultural studies.

**65035/75035 Linguistics for Rhetoricians (3)**

Provides an introduction to linguistic theories, concepts and tools relevant to the teaching and researching of various dimensions of written texts.

**65044/75044 Research Design (3)**

Introduces students to a range of research methodologies through theoretical scholarship and guided practice, culminating in a pilot research project.

**65050/75050 Philosophy of Language (3)**

Critical examination of nature and function of language especially in relation to mental function and development.

**65051/75051 Literacy: Functions, Practices and History (3)**

Course surveys and critically evaluates historical and contemporary studies of literacy in terms of three dominant metaphors ("adaptation," "power," "grace") those studies employ.

**65052/75052 Writing Activity as Social Practice (3)**

Through Vygotskian-based activity theory and contemporary theories of practice, course explores the rhetorical bases and implications of studying literacy and writing as embedded activity.

**65053/75053 Writing Technologies (3)**

Course critically examines theoretical and pedagogical claims concerning writing technologies and begins identifying the conceptual components of a grounded theory for technology enhanced literacy learning.

**65057/75057 Semeiotics (3)**

(Cross-listed with MCLS 60020 and PHIL 61055) An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology.

**66001/76001 Early British Literature Through the 18th Century (3)**

A broad survey spanning many centuries. This course will identify key literary and cultural trends as represented in Beowulf to Blake.

**66002/76002 British and Irish Literature from the Early Romantics Onward (3)**

Broad, synchronic study of the literature identified with a single period in literary history, embracing various genres and relating the literature to other cultural phenomena of the time.

**66005/76005 Old English (3)**

In-depth study of Old English grammar and vocabulary, accompanied by guided reading of select Old English texts, with further reading in the history and culture of Anglo-Saxon England.

**66042/76042 Teaching English in Secondary Schools (3)**

A course for the experienced secondary English teacher who wants to explore current thinking in the teaching of literature, language and composition.

**66051/76051 Shakespeare (3)**

Close reading of selected plays and poems by Shakespeare with some emphasis on critical and interpretative problems.

**66052/76052 Survey of Children's Literature (3)**

(Cross-listed with CI 6/77315) Wide reading in children's literature, with particular application to the school curriculum and the field of reading.

**66053/76053 Criticism of Children's Literature (3)**

(Cross-listed with C&I 6/77316) A critical study of outstanding children's literature from early times to the present. Prerequisite: ENG 31038 and special approval.

**66054/76054 Business and Technical Writing (3)**

Development of skills for writing business and technical material in clear, effective and correct English.

**66101/76101 Literature of the United States Through the Civil War (3)**

Broad, synchronic study of U.S. literature identified with a single period in literary history, embracing various genres and relating the literature to other cultural phenomena of the time.

**66102/76102 Literature of the United States After the Civil War (3)**

Intensive survey of the major movements and cultural/ethnic diversity of American poetry, drama, fiction and literary nonfiction from Realism to Postmodernism.

**66103/76103 Ethnic Literature of the United States (3)**

An examination of selected fiction and theory by ethnic American authors, or of literary representations of special topics relating to ethnic and racial identity.

**66104/76104 African-American Literature (3)**

An examination of selected African-American fiction and theory, or of a special topic relating to literary representations of African-American culture, identity or history.

**66301/76301 World Literature in English (3)**

A survey of important works written in English by writers not native to Britain, Ireland or the United States.

**66302/76302 Post-Colonial Literature in English (3)**

An examination of selected fiction and theory in English by post-colonial authors from India, Africa, South Africa, the Caribbean and elsewhere.

**6401/76401 Literary Movements (3)**

An examination of one particular movement in literary history via its writers, artists, benefactors, thinkers, political demagogues and critics.

**66501/76501 Narrative Literature (3)**

Close readings of selected novels, short stories, biographies, autobiographies, life writing, journals and other forms of narrative and verse by British, American and other writers in English, from one or more periods in literary history.

**66502/76502 Dramatic Literature (3)**

Close reading of selected plays and other dramatic forms by writers of Britain, Ireland and the United States from one or more periods in literary history.

**66503/76503 Poetry and/or Poetic Literature (3)**

Close reading of selected poems and other poetic forms by writers of Britain, Ireland or the United States, from one or more periods in literary history.

**66504/76504 Women Writers (3)**

Close readings of important works written in English by women from one or more periods in literary history.

**66505/76505 Literary Modes (3)**

Analysis of works, in various genres from various periods, which generate similar responses, with emphasis on defining the source of response. Content varies.

**66592/76592 Practicum in Tutoring Writing (1)**

Practical training and experience in tutoring composition.

**66595/76595 Special Topics: Authors and Authorship (3)**

Research-based study of problems in the theory or practice of authorship. Typical courses include "The Creative Process," "Authors and Printers," "Faulkner in Hollywood."

**66706/76706 Methods in the Study of Literature (3)**

Analytical reading and interpretation of published research and criticism, its assumptions, trends, controversies; course will identify and contextualize present opportunities for research in field.

Required for Ph.D.s specializing in Division II.

**66791/76791 Seminar: British and Irish Literature (3)**

In-depth treatment of various topics from Old English literature, Beowulf, Middle English literature and Chaucer.

**66795/76795 Special Topics: Comparative Literature (3)**

Selected topics in comparative literary studies that range from issues in the European novel to the study of literary movements and the related arts.

**66891/76891 Seminar: Literature of the United States (3)**

This course will examine the construction of American identities. Writers typically discussed are Howells, Dreiser, Cahan, Anderson, Fitzgerald, Dos Passos, Wright, Baldwin, Bellow, Ikada, Jen and others. Content varies.

**66895/76895 Special Topics (3)**

Study of selected special topics in literature.

**6991/76991 Seminar: Genre (3)**

In-depth examination of one or more kinds of text focusing on how forms are defined historically and analytically, with special attention to current approaches.

**67001/77001 History of Literary Theory (3)**

A consideration of the major texts and issues that have shaped literary theory and criticism from the Classical period to 20th century New Criticism.

**67002/77002 Contemporary Literary Theory (3)**

A survey of the major works of literary theory written after 1950.

**67101/77101 Feminist Theory and Criticism (3)**

Study of key issues and concepts in feminist theory and criticism, including the nature, causes and effects (political, social and psychological) of certain types of representation of women and discourse practices employed by

women.

**67102/77102 Gender Theory and Criticism (3)**

An overview of the current field of literature-related discourses on gender construction, with attention to crucial historical texts that have shaped the contemporary debate.

**67103/77103 Psychoanalytic Theory and Criticism (3)**

Study of important issues and concepts in psychoanalytic theory and criticism. Repeatable as content varies.\

**67104/77104 Social and Cultural Theory and Criticism (3)**

Study of important issues and concepts in Marxist, new historicist, ethnic, post-colonialist and other modes of social/cultural theory and criticism. Repeatable as content varies.

**67105/77105 Structuralism and Poststructuralist Theory and Criticism (3)**

Study of important issues and concepts in structuralist semiotics, narratology, rhetoric, genre theory and discourse theory. Repeatable as content varies.

**67106/77106 Historicist Theory and Criticism (3)**

Study of current approaches to literary history and various historical approaches to the study of literature.

**67591/77591 Seminar: Theory and Criticism (3)**

In-depth study of important topics in contemporary theory and criticism. Repeatable as content varies.

**67601/77601 Documents and Texts (3)**

Surveys the forms in which written texts are preserved and the ways they are transmitted, revised and mediated. Emphasizes early and modern printing and analytical bibliography.

**67691/77691 Seminar: Scholarly Editing (3)**

In-depth treatment of various topics from modern scholarly editing.

Repeatable as content varies.

**68093/78093 Variable Title Workshop in English (2-6)**

Designed to focus on concerns of the profession/discipline to bring secondary teachers up to date on new developments in the field. May be repeated for maximum credit of 8 hours provided content is different; maximum for degree credit is 4 hours. S/U grading.

**68096/78096 Individual Investigation (1-3)**

Intensive study of selected writer or special topic. IP permissible.

**68098 Research (1-15)**

Research for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves. Repeat registration permitted. Prerequisite: special approval.

**68392/78392 Practicum in Teaching College English (3)**

Practical training and experience in teaching beginning composition courses.

**68492/78492 Practicum in Teaching International Students (3)**

Practical training and experience in teaching English composition to international students.

**69199 Thesis I (2-6)**

Thesis students must register for a total of 6 semester hours, 2 to 6 in a single semester, distributed over several semesters, if desired. S/U grading; IP permissible. Prerequisite: special approval.

**69299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: ENG 69199.

**85024 Domain Rhetorics and the Construction of Knowledge (3)**

Course examines disciplinary and knowledge production as historically and socially situated practices and how they are realized through linguistic, rhetorical and material processes and systems.

**85025 Theories and Systems of Writing and Representation (3)**

Course examines the history and use of scripts and other means of constructing shared meaning and the attendant contemporary issues concerning writing and representation.

**85033 The Rhetorical Nature and Function of Extended Discourse (3)**

Examines rhetorical nature and function of written discourse from social, cultural and psychological perspectives and how discourse production and interpretation interact with relevant contexts. Prerequisite: ENG 63031 or ENG 73031; and 9 doctoral hours of ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057.

**85041 Field Research Methods in Writing (3)**

Course focuses on qualitative methods for conducting field research in writing within communities of practice and particular contexts and for analyzing and interpreting data. Prerequisite: 9 doctoral hours of ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057.

**85042 Discourse Analysis (3)**

Course explores various approaches to discourse analysis (e.g., speech act theory pragmatics ethnography of communication conversation analysis) and applies them to linguistic analyses of discourse. Prerequisite: ENG 63031 or ENG 73031; and 9 doctoral hours in ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057.

**85043 Historical Research Methods in Writing and Rhetoric (3)**

Course explores methods for the historical study of rhetoric and writing: archival research ethnohistory narrative theory and

disciplinary and institutional historiography. Prerequisite: 9 doctoral hours in ENG 75011 and ENG 75012 and ENG 75022 and ENG 75023 and ENG 73034 and ENG 75051 and ENG 75052 and ENG 75053 and ENG 75057.

**85054 Studies in Literacy and Community (3)**

Course expands on ENG 6/75052 by examining in more detail how literacy is embedded in the activities and practices of academic, civic and professional communities.

**85055 The Nature and Relationship of Academic and Nonacademic Literacy (3)**

Course explores the relationship between academic and nonacademic literacy, focusing on relationships pertaining to the school-to-work transitions that students make. Prerequisite: special approval.

**85060 Directed Readings in Writing and Rhetoric (3)**

Topics covered will vary according to the needs of students demonstrating deficiency in qualifying exams and/or requiring additional work before undertaking a dissertation project.

**88098 Research (1-15)**

Research or individual investigation for doctoral students who have not yet passed candidacy examination. Credits earned may be applied toward degree if department approves. Repeat registration permitted. Prerequisite: approval of the graduate chair.

**89199 Dissertation I (15)**

Doctoral dissertation, for which registration in two semesters is required, first of which will be the semester in which dissertation work is begun and continuing until completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree.

**89299 Dissertation (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all



degree requirements are met. S/U grading; IP permissible. Prerequisite: ENG 88199.

## **Graduate Epidemiology (EPI)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Epidemiology (EPI)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **50196 Individual Investigation in Epidemiology (1-3)**

Individual graduate investigation or research in areas related to epidemiology. Repeated registration permitted for a maximum of 6 credit hours. IP permissible. Prerequisite: special approval.

### **52017 Fundamentals of Public Health Epidemiology (3)**

Introduces principles, methods, and application of epidemiology. Covers the history of epidemiology, concepts of disease causation and prevention, measures of disease frequency and excessive risk, epidemiologic study designs, causal inference, outbreak investigation and screening. Provides experience with calculation of rate standardization, measures of disease frequency, association, and impact, and sensitivity and specificity of screening tests. Highlights applications of epidemiology to understanding of disease etiology, transmission, pathogenesis, and prevention, evaluation and public policy development.

### **63014 Epidemiology of Chronic Disease (3)**

With a life course approach to

chronic disease epidemiology, this course focuses on cardiovascular, respiratory, cerebrovascular diseases and cancer. Health and disease are addressed from a multicausal perspective which includes individual behaviors, psychosocial issues, and sociodemographic, biological, and physiological factors. Time points for prevention and intervention are identified.

### **63015 Epidemiology of Infectious Diseases (3)**

Surveys the history, principles, methods and practice of infectious disease epidemiology, by (1) defining and understanding infectious disease epidemiology surveys, (2) collecting and measuring surveillance data, (3) interpreting epidemiology data and (4) predicting evidence-based outcomes. Primarily a course in epidemiology. Students learn some infectious disease microbiology as well. Prerequisite: EPI 52017.

### **63016 Principles of Epidemiologic Research (3)**

Builds on the fundamental epidemiology course to explore deeper the concepts and methods in epidemiologic research. Reviews the measures of disease frequency, association and impact, and epidemiologic reasoning and causal inference, and covers methods and techniques for designing, implementing, analyzing, and interpreting various epidemiologic study designs. Discusses advantages and limitations of various study designs and explores threats to validity, precision, and generalizability of epidemiologic studies. Prerequisites: BST 52019 and EPI 52017.

### **63017/83017 Epidemiological Analysis (3)**

Provides practical instruction in the analysis and interpretation of data from various epidemiologic study

designs including cross-sectional, case-control and cohort studies. Reviews statistical concepts and epidemiologic studies designs, outlines a strategy for data analysis and reviews relevant methodologic issues and applies stratified analysis methods and multivariable regression models to the studies. Develops an understanding of the underlying principles and assumptions, practical application, and correct interpretation of the epidemiologic results. Provides hands on experience on the application of epidemiologic analysis methods and presentation of the results. Prerequisites: BST 52019; and EPI 52017 and 63016.

### **72028 Methods of Evidence Based Public Health (3)**

Explores tools and techniques used to quantitatively determine the effectiveness of public health interventions in the social sciences.

### **73024 Emerging Issues in Chronic Disease Epidemiology (3)**

Covers emerging chronic disease issues on a global level and students understand the life course approach to chronic disease epidemiology. Putative factors and infectious agents are examined as causes of chronic disease and chronic syndromes. Issues related to screening and surveillance will be understood. Students appreciate issues pertaining to study design, modeling, and data analysis in life course epidemiology of chronic disease.

### **73025 Emerging Issues in Infectious Disease Epidemiology (3)**

Investigates global emerging and reemerging infectious diseases. Students evaluate root causes of infectious disease emergence and predict outcomes. Data from primary literature is used to predict alternate outcomes. Specific disease



models are used to evaluate and compare prevention, treatment and eradication strategies.

### **73026 Design and Implementation of Health Surveys (3)**

Covers survey design, variable construction, survey administration and data collection methods, variable coding and manipulation, and data analysis. Students will understand sampling methods, and sample size. Large health surveys are discussed. Students gain practical experience through design and implementation of a health survey which can be used to facilitate dissertation research or a publication.

### **73027 Biological Basis of Public Health (3)**

Integrates the sciences of biology and molecular biology into the principles and practice of public health. Implicit in this course are learning objectives that establish the ecology of infectious disease, the impact of vaccines in disease prevention, and the role of environmental toxins on human health and disease. Additionally, students propose policy, regulations and legislation designed to protect human health within the realm of personalized medicine.

### **73029 Public Health Surveillance Systems (3)**

Introduces students to surveillance systems of both infectious and non-infectious diseases as well as intentional and non-intentional injury. Students are exposed to the theory and practice of surveillance illustrated with examples existing systems from around the world. Culminates in a project where the student creates and evaluates a surveillance system of their own design.

### **73033 Environmental Epidemiology (3)**

Comprehensive course on concepts in environmental epidemiology and statistical methods in environmental epidemiology including causal inference models.

### **73034 Longitudinal Data Analysis (3)**

Statistical techniques for analyzing longitudinal, or repeated measures, data. Focuses primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics covered include univariate and multivariate analysis of variance for repeated measures, mixed-effects models (HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE), mixed-effects logistic regression models and missing data in longitudinal studies.

## **Graduate Educational Psychology (EPSY)**

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*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **50093/70093 Variable Title Workshop in Educational Psychology and Foundations (1-4)**

Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are accepted to the university. For 50093 only, may be repeated once for total maximum credit of 6 hours.

S/U grading.

### **60199 Thesis I (2-6)**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

### **60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EPSY 60199.

### **65520 Child and Adolescent Development (3)**

Dimensions of human development and learning, causal factors and research findings which carry implications for educators in various settings; focusing on birth through adolescence.

### **65521 Adult Development (3)**

Essential dimensions of human development and learning, the causal factors, and the research findings which carry implications for educators in various settings; focusing on early through late adulthood.

### **65523 Life Span Development (3)**

Orientation to human development across life span from conception to death; emphasis on pluralistic determinants of individual growth within changing environmental contexts. Implications for educational and human service practices are emphasized.

### **65524/75524 Learning Theories (3)**

Theories of learning with special emphasis on applications to professional practice. A critical examination of research on human learning processes.

**65529/75529 Educational Motivation (3)**

Provides students with the opportunity to explore, analyze and evaluate literature related to theories of motivation. Content is grounded in theories but each of the theories has clear classroom application.

**68901 Psychological Foundations of Education I (3)**

Overview of human development, particularly adolescence, and implications for educational policy and programming, generally and specifically for secondary schools. Prerequisite: Admission to the M.A.T. program.

**68902 Psychological Foundations of Education II (3)**

Learning theories and principles, individual differences in learning, classroom planning and evaluation; toward an effective instructional psychology of secondary teachers. Prerequisite: Admission to the M.A.T. program.

**68904 Learning Theories Applied in Education (2)**

Theories of learning and their application to educative process. Special emphasis on application of learning theories to problems of classroom teaching generally and to classroom management.

**69091/89091 Seminar in Learning and Development (1-5)**

Variable topic seminar for advanced study of specialized topics and areas; in learning and development; emphasis on theory and research findings as related to educational practice.

**69092/89092 Advanced Practicum and Internship in Learning and Development (2-6)**

Supervised program in field setting involving application of theories, principles and methodology in learning and development. Planned

with and supervised by graduate faculty member. S/U grading; IP permissible.

**69095/89095 Special Topics in Learning and Development (1-3)**

Specific topic course offering in response to emerging student or program needs in learning and development.

**69096/89096 Individual Investigation in Learning and Development (1-3)**

Students pursue an individual project on a specific topic in learning and development with approval and under direction of instructor. S/U grading; IP permissible. Prerequisite: special approval.

**69098/89098 Research in Learning and Development (1-15)**

Students pursue an individual research project on a specific topic in learning and development with approval and under direction of instructor. S/U grading; IP permissible. Prerequisite: special approval.

**77450 Psychological Principles of Education (3)**

Provides an exploration of educational psychology as the study of learning and teaching, in particular the mental representations and processes involved in the acquisition, storage, retrieval and use of knowledge in educational settings. Discusses how research and theory in educational psychology can be applied to real world classroom problems. Students are also required to develop a research project, which utilizes technology to test psychological theories about learning and instruction. Corequisite: ITEC 77450.

**78905 Educational Psychology (3)**

Analysis and critique of major learning theories, state-of-the-art development in theory, research and

application to educational practice in selected disciplines.

**80090 Doctoral Residency Seminar (3)**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues, research and trends in education in multiple settings.

**80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EPSY 80199.

**Graduate Evaluation and Measurement (EVAL)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Evaluation and Measurement (EVAL)

*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50093/70093 Variable Title Workshop in Educational Psychology and Foundations (1-4)**

Offered on request of school system. Enrollment limited to teachers, administrators or supervisors who are employed in sponsoring system and who are

accepted to the university. For 50093 only, may be repeated once for total maximum credit of 6 hours. S/U grading.

**60199 Thesis I (2-6)**

Thesis student must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (3)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EVAL 60199.

**65510/75510 Statistics I for Educational Services (3)**

Introduction to descriptive and inferential statistics used in educational services research: univariate and bivariate techniques (correlation and simple regression); hypothesis testing; non-parametric techniques. Enhanced use of gb-stat. Ordinarily taken early in graduate course sequence.

**65511 Research in Educational Services (3)**

Introduction to purposes and practice of qualitative and quantitative research related to educational services. Emphasis on elements of doing research and using products of research to support and enhance practice. Authentic examples used as illustration.

**68710/78710 Classical Test Theory (3)**

Students develop an understanding of ideas and procedures related to classical test theory sufficient for test development and meaningful interpretation of results from standardized tests and other assessments. Prerequisite: EVAL 65510.

**68711/78711 Modern Test Theory: Item Response Theory(3)**

The primary objective of the course is to provide students with knowledge and skills necessary to use item response theory methods and to organize, manipulate, analyze and interpret data from IRT applications. Some of the popular IRT computer programs are introduced. Prerequisite: EVAL 65510 and 68710.

**68712/78712 Generalizability Theory (3)**

Students develop the knowledge and skills necessary to use Generalizability Theory (GT) methods as well as to organize, manipulate, analyze and interpret data from GT studies. Prerequisite: EVAL 65510; and EVAL 78716 or 85515.

**68713/78713 Multivariate Analysis in Educational Research (3)**

Objectives are to enable students to select and use multivariate methods appropriately, to develop knowledge/skills necessary to conduct multivariate analyses using various statistical packages (SPSS, SAS), and to develop knowledge and skills necessary for interpreting results of multivariate analysis. Prerequisite: EVAL 65510; and EVAL 78716 or 85515.

**68714/78714 Factor Analysis in Educational Research (3)**

This course develops the ability of students to conceptualize and apply the logic and techniques of factor analysis. The focus is on both exploratory and confirmatory procedures. Prerequisite: EVAL 65510; and EVAL 78716 or 85515.

**68791/88791 Seminar in Evaluation and Measurement (1-5)**

Variable topic seminar for advanced study of specialized topics and areas

in evaluation and measurement; emphasis on theory and research findings as related to educational practice.

**68792/88792 Advanced Practicum and Internship in Evaluation and Measurement (2-6)**

Supervised program in field setting involving application of theories, principles and methodology in valuation and measurement. Planned with and supervised by graduate faculty member. S/U grading; IP permissible.

**68795/88795 Special Topics in Evaluation and Measurement (1-3)**

Specific topic course offering in response to emerging student or program needs in evaluation and measurement.

**68796/88796 Individual Investigation in Evaluation and Measurement (1-3)**

Specific topic course offering in response to emerging student or program needs in evaluation and measurement. S/U grading; IP permissible. Prerequisite: special approval.

**68798/88798 Research in Evaluation and Measurement (1-15)**

Students pursue an individual research project on a specific topic in evaluation and measurement with approval and under direction of instructor. S/U grading; IP permissible. Prerequisite: special approval.

**68807 Evaluation in Education (3)**

Study of principles and techniques of evaluation and measurement, and utilization of evidence to improve teaching, learning and implementation of programs.

**78716 Educational Statistics II (3)**

Major types of methods used to

investigate relationships between two or more variables are introduced; includes various analysis of variance designs, analysis of covariance and multiple correlations.

**78728 Educational Statistics III (3)**

Advanced univariate and introductory multivariate techniques in education research, including analyses of variance and covariance, multiregression and causal modeling, factor analysis and canonical correlation.

**78898 Comparative Research Design (3)**

The course develops the ability of the student to conceptualize the design elements of educational research and to write results of studies.

**80090 Doctoral Residency Seminar (3)**

Advanced doctoral residency seminar for students in all areas of educational foundations. Focus on current and emergent issues, research and trends in education in multiple settings.

**80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EVAL 80199.

**85515 Quantitative Research Designs and Application in Educational Services (3)**

Quantitative research design and application in educational services research. Spiral presentation of methodological principles within a variety of theoretical frameworks and procedures. Strong focus on computer-aided applications. Ordinarily taken early in doctoral course sequence. Prerequisite: EVAL 6/75510.

**85516 Qualitative Research Designs and Application in Educational Services (3)**

Introduction to theory and practice of qualitative research methods and field studies in educational services. Examination of a variety of strategies including observation, document analysis and interviewing. Ordinarily taken early in Doctoral course sequence.

**85517 Advanced Quantitative Research in Educational Services (3)**

Advanced quantitative research design and application in educational services. Statistical packages of instructional strategies with methodological principles focus, theoretical models, and practical application of experimental and multivariate research design. Prerequisite: EVAL 85515.

**85518 Advanced Qualitative Research in Educational Services (3)**

Utilizes qualitative data in educational services. Applications in qualitative methodology (video techniques) and protocol analysis are applied and evaluated. Generate findings; develop applications to theory; reliability and validity considerations. Prerequisite: EVAL 85516.

**Graduate Exercise Physiology (EXPH)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Exercise Physiology (EXPH)

*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50612 Exercise Leadership for the Older Adult (3)**

Designed to provide the students with a knowledge base in exercise leadership in the senior population and includes special populations. Students participate in the leading, supervision and evaluation of the participant within the exercise program. They also assist in the collection of functional fitness data.

**53093 Variable Title Workshop in Exercise Science and Exercise Physiology (1-3)**

Workshop in exercise science or physiology, topics vary. Repeatable for a maximum of 6 credit hours. S/U grading.

**55065 Exercise Testing (3)**

Lecture and laboratory experiences dealing with the administration and interpretation of exercise tests.

**55070 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. Prerequisite: special approval.

**55080 Physiology of Exercise (3)**

Physiological bases of muscular activity with special attention to general effects of exercise on body

function. Laboratory included.

**60610/70610 Physiology of Aging: Implications for Human Behavior (3)**

Examine physiological changes that accompany advancing age. Special attention is paid to the effect of these changes on sensory, motor and cognitive behavior.

**63050 Research Processes in Athletic Training and Exercise Physiology (3)**

The research process and statistical concepts applied to exercise, leisure and sport.

**63051 Quantitative and Research Methods in Athletic Training and Exercise Physiology (3)**

Research design and statistical methods applied to exercise, leisure and sport. Prerequisite: EXPH 63050.

**63095/73095 Research Seminar (1)**

Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. S/U grading.

**63096 Individual Investigation in Exercise Physiology (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. Repeatable for a maximum of 6 credit hours. IP permissible.

**63098 Research (1-15)**

Research or individual investigation. Repeat registration permitted. IP permissible.

**63193 Variable Title Workshop in Exercise Physiology (1-3)**

Workshop in exercise physiology; topics vary. Repeated registration permitted. Maximum 4 hours

applied to the degree. Prerequisite: special approval.

**63195 Special Topics in Exercise Physiology (1-3)**

Selected and varied topics of relevance in exercise physiology. Repeatable for a maximum of 6 credit hours.

**63199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester, distributed over several semesters if desired. S/U grading; IP permissible.

**63299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EXPH 65199.

**65080/75080 Physiological Basis of Exercise and Sport (3)**

Application of physiological concepts to human performance. Includes role of testing, training strength and endurance, nutritional considerations, environmental influences and adapted exercise programs.

**65081/75081 Energy Metabolism and Body Composition (3)**

Measurement of metabolic response to exercise. Topics include ergometry, spirometry, energy expenditure, body composition and performance correlates of strength, power and endurance.

**65082/75082 Cardio-Respiratory Function (3)**

Measurement of the cardiovascular-respiratory response to exercise. Includes resting spirometry, lung function during exercise, electrocardiography, blood pressure, PWC testing and exercise prescription.

**65192/75192 Internship in Exercise Physiology (1-6)**

Field experience in exercise physiology programs and testing in Kent State University adult fitness program or cooperating agencies. May be repeated for a total of 8 credit hours. Prerequisite: special approval.

**73052 Advanced Research Design and Statistics in Exercise Physiology (3)**

Advanced topics in research design and statistical analysis with computer applications in exercise physiology. IP permissible. Prerequisite: EXPH 63051.

**75004 Biomechanics (3)**

(Cross-listed with ATTR 65004) Survey of biomechanics, with particular emphasis on skeletal muscle mechanics.

**75075 Muscle Function and Exercise (3)**

Characteristics of skeletal muscle related to contraction during exercise, strength, elasticity, fatigue and training. Electromyograph analysis of muscle function emphasized.

**75076 Environmental Stress and Exercise (3)**

Effects of heat, cold, pressure, pollution and psychological stress upon physiological responses to exercise. Lecture and laboratory.

**75083 Exercise Energy Metabolism (3)**

Energy transformations during exercise. Emphasis on controlling mechanisms that regulate the anabolic and catabolic responses to both acute and chronic exercise.

**75084**

**Cardiovascular/Respiratory Dynamics During Exercise (3)**

Responses of the cardiovascular and respiratory systems to exercise. Use

of noninvasive methods to measure cardiorespiratory function emphasized. Lecture and laboratory.

### **75085 Anthropometry and Body Composition in the Exercise Sciences (3)**

Theory of selected procedures for the measurement of body composition and physique and their applications in the sports sciences. Laboratory seminar format.

### **83098 Research (1-15)**

Research for doctoral students. Repeat registration permitted. IP permissible. Prerequisite: special approval.

### **83199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Special approval.

### **83299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: EXPH 83199.

### **Graduate Fashion Design and Merchandising (FDM)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Fashion Design and Merchandising (FDM)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

### **60010 Theories in Fashion (3)**

Focuses on the meaning, context and intent of fashion design to contemporary society. Prerequisite: admission to M.B.A. program.

### **60020 Fashion Design Management (3)**

In-depth study of the relationship between creativity and efficiency in fashion design. Provides insight into how project managers can nurture innovation in an organizational context. Prerequisite: admission to the M.B.A. program.

### **60030 Research Methods in Fashion Design and Merchandising (3)**

Critical evaluation of research, theoretical and scholarly review articles related to apparel and textiles. Learn and practice skills needed to understand and critically evaluate research, theory and scholarly works. Examine in-depth scholarly literature on one topic within apparel and textiles. Write and present a scholarly review of literature. Prerequisite: admission to the M.B.A. program.

### **60098 Research Project in Fashion Design and Merchandising (3)**

Research experience with an individual faculty member designed to strengthen students' ability to synthesize different phases and methods of research. Students work closely with faculty to determine the specific nature, scope and design of the research experience. Prerequisites: FDM 60010 and 60020 and 60030; and admission to the M.B.A. program.

### **Graduate Finance (FIN)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Finance (FIN)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing.*

*Additional prerequisites may apply and are listed in this catalog.*

### **66075 Legal Aspects of Financial Engineering (3)**

Coverage of the legal, regulatory and compliance aspects of derivative use and the current legal standing of derivatives and regulatory issues associated with derivatives. Issues of risk measurements and risk transparency of derivatives markets and disclosure issues are covered. Prerequisite: FIN 66080.

### **66080 Derivatives I (3)**

An introduction to the theory and practice of pricing and hedging of derivative securities. Coverage of equity and index, foreign currency, commodity and interest-rate derivatives. Basic mathematical concepts and the institutional structure of derivative markets discussed. Corequisite: BAD 66061.

### **66081/76081 Derivatives II (3)**

Coverage of exotic options, discrete and continuous pricing models and pricing techniques. Develops the economic foundations of the theory of derivatives and a mathematical tool kit to analyze standard instruments and "dissect" exotic ones. Prerequisite: FIN 66080 and BAD 66061.

### **66084/76084 Financial Engineering (3)**

Coverage of VaR, hedging techniques, synthetic assets and volatility trading. Risk management and risk control models are covered. Surveys, standard approaches to measuring and modeling financial risk from the risk manager perspective. Prerequisite: FIN 66080 and BAD 66061.

### **66085/76085 Fixed Income Markets (3)**

Provides a quantitative approach to fixed income instrument use. Covers the mathematics of bond pricing, term structure analysis and pricing of credit risk. Trees and Monte Carlo methods of evaluation are presented. Prerequisite: FIN 66080 and BAD 66061.



## **Graduate French (FR)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

### **53091 French Seminar (3)**

Topic to be announced.

### **53213 French Composition-Advanced (3)**

French stylistics developed through analyses of literary extracts and practice in written expression. Prerequisite: special approval.

### **53216 Contemporary French Culture (3)**

A study of selected sociological, political, cultural or economic issues in the contemporary Francophone world. Prerequisite: special approval.

### **53366 Studies in 19th-Century French Literature (3)**

Study of selected topics in 19th-century French literature. Prerequisite: 6 hours from 33330 level.

### **53368 20th Century French Novel (3)**

Study of selected 20th-century French novels, with emphasis on one or several major writers or movements. Prerequisite: 6 hours from 33330 level.

### **53369 20th 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.

### **53370 20th Century French Theatre (3)**

Studies in French drama since 1900. Prerequisite: 6 hours from 33330 level.

### **53380 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.

### **63001 Graduate Research and Writing in French (3)**

Individual instruction and assistance with problems encountered in academic research and writing in French. Required of all graduate students in their first fall semester of graduate work.

### **63010 The Practice of French Translation (3)**

Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010.

### **63093 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: special approval.

### **63098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned applied toward degree requirements if department approves. Repeat registration permitted. IP permissible. Prerequisite: special approval.

### **63199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

### **\*63201 Reading French for Graduate Students (4)**

Introduction to the fundamentals of French grammar for graduate students. Practice in reading and translation.

### **\*63202 Reading French for Graduate Students**

**(Humanities/Social Sciences) (3)**  
Practice in the reading and translation of French texts in the student's specialized field and in more general areas.

### **63240 Literary and Cultural Translation (3)**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into French will also be emphasized.

### **63250 Commercial, Legal and Diplomatic Translation (3)**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010.

### **63299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: FR 63199.

### **63979 Case Study in Translation (3)**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process, and the strategies used to solve them. S/U grading. Prerequisite: special approval.

*\*Credit hours earned in this language sequence are not applicable toward the completion of the hour requirement in a student's graduate program, and do not count toward the minimum 8-hour semester load required.*

## **Graduate College (GCOL)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate College (GCOL)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **61000 Introduction to Liberal Studies (2)**

Introduction to history, philosophy and curricular structure of graduate liberal studies.

### **61093/71093 Workshop in College Teaching (1-2)**

Orientation to college teaching for new teaching assistants.

### **61094/71094 College Teaching (1-2)**

Training, supervision and evaluation in college-level instruction. A maximum of 2 hours permitted toward degree.

### **61098 Liberal Studies Essay (3)**

The preparation of an essay of approximately 50 pages on a topic related to the student's program of study for the Master of Liberal Studies degree. S/U grading; IP permissible.

### **71191 Interdisciplinary Gerontology (3)**

This seminar assists students in developing the knowledge and skills needed to discuss major issues in gerontological therapy, research and practice from an interdisciplinary perspective. Prerequisite: special approval.

## **Graduate Geography (GEOG)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Geography (GEOG)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **50093/70093 Variable Title Workshop in Geography (1-5)** S/U grading; IP permissible.

### **50195/70195 Special Topics in Geography (1-3)**

Prerequisite: Special approval.

### **50292/70292 Field Experience in Geography (1-6)**

Examination of geographic landscapes in the field. Prerequisite: special approval.

### **50392/70392 Practicum in Emerging Geographic Trends (1-6)**

Examination of newly emerging geographic topics and techniques. Prerequisite: special approval.

### **51050/71050 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.

### **51052/71052 Glaciers and Glaciation (3)**

(Cross-listed with GEOL 5/74052) 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.

### **51062/71062 Advanced Physical Geography (3)**

Advanced systematic analysis of the elements of physical geography. Specific methodologies and their application to physical geography are also discussed.

### **51066/71066 Climate Change and Its Impacts (3)**

Examination of the evidence and causes of climate change and how these data are assessed. Past, present, and future impacts of climate change and variability are

discussed, along with policy implications.

### **51073/71073 Conservation of Our Natural Resources (3)**

Evaluation of past and current problems associated with the management of natural resources and the environments associated with their utilization.

### **51074/71074 Resource Geography (3)**

Cultural attitudes, conceptual approaches and techniques in resource geography; analysis of selected resource issues at various area scales.

### **51082/71082 Geography of Soils (3)**

Study and analysis of different soil types in their relation to geographic factors.

### **52052/72052 Medical Geography (3)**

Examines the geographic patterns of morbidity and mortality, environmental correlates of major diseases and disease diffusion. Locational and accessibility issues of health care are discussed.

### **52064/72064 Historical Geography of the United States and Canada (3)**

Study of regional origins, growth, evolution of spatial organization, changing evaluation of environments and selective geographies in United States and Canada from precolonial times to present.

### **54010/74010 Geography of the Global Economy (3)**

Geographic analysis of the increasing inter-connectedness of economic activity. The social, technological, and political changes associated with globalization are also discussed.

### **54070/74070 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, and



spatial allocation problems.

**55085/75085 Urban Transportation (3)**

Spatial interaction patterns in urban environments. Travel behavior, commodity flows, traffic patterns and urban transportation systems. Urban transportation problems. Theoretical developments and techniques of analysis in urban transportation.

**56035/76035 Marketing Geography (3)**

Study of spatial arrangement and functions of market centers and the internal spatial patterns of retail/wholesale facilities in urban areas.

**56065/76065 Advanced Urban Geography (3)**

Investigation of advanced concepts pertaining to the spatial structure of urban areas.

**56070/76070 Urban and Regional Planning (3)**

Analysis of the geographical aspects of planning for cities and regions.

**56092 Internship in Geography and Planning (3-6)**

Preprofessional work experience in local, regional and environmental planning agencies and private business designed to utilize and develop academic skills. Prerequisite: special approval.

**59070/79070 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 laboratory exercises using GIS software packages for real world applications.

**59076/79076 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 4/5/79070.

**59080/79080 Advanced Geographic Information Science (3)**

Advanced theories and techniques for handling geographic information systems, including 2D and 3D processing of geographic information, detection and analysis of geographic patterns, 2D and 3D mapping of geographic information, modeling of geographic processes, and an overview of GIS programming tools. Prerequisite: GEOG 4/59070

**59162/79162 Advanced Cartography (3)**

Study of the design and production of complex maps, symbolization, composition and color utilization. Prerequisite: GEOG 39161. Corequisite: GEOG 5/79163.

**59163/79163 Advanced Cartography Laboratory (1)**

Practical experience in the techniques of the production and reproduction of maps.

**59165/79165 Geomapping (3)**

Information theory, data collection, automated mapping systems, representation of surfaces, lines and points, geographic data structures and applications. Mapping by line printer, plotters and interactive terminals.

**59210/79210 Earth Imagery (3)**

The student in this course will be introduced to the full variety of methods of imaging the earth for environmental analysis, including satellite methods. Prerequisite: GEOG 29160.

**59211/79211 Earth Imagery Lab (1)**

This course will support the lecture course, Earth Imagery, by giving the student exposure to the methods of manual measurement and interpretation of images. Corequisite: GEOG 5/79210.

**59230/79230 Remote Sensing (3)**

(Cross-listed with GEOL 5/72030) Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized.

**59480/79480 Field Study in Geography (3)**

Presents methods of planning and structuring field studies, the techniques of mapping and data gathering in the analysis of local field problems. Prerequisite: special approval.

**59482 Field Study of Selected Rural and Urban Areas (5)**

Field studies of rural and urban regional problems in the United States or Canada. One month or more in field; written report on findings. Limited to 15 students. Students pay for own board and laboratory fee. Prerequisite: approval of instructor.

**59890/79890 Applied Geography (3)**

Detailed investigation of application of geographic techniques and knowledge toward problem solving in the "real world."

**60191/70191 Seminar in Topical Geography (3)**

Seminar in one of the major topical fields in geography offered by title in given semester.

**60197/80197 Intradepartmental Colloquium (3)**

One hour credit per semester. S/U grading; IP permissible.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GEOG 60199.

**60800/70800 Seminar in the Development of Geographic Thought (3)**

Development of geographic knowledge and concepts with emphasis on recent development. Critical analysis of writings of representative geographers and scientists in related fields.

**60881/70881 Contemporary Issues in Geography (3)**

Review of some of the important philosophical, methodological and contextual research areas in geography. Designed to expose students to potential research areas.

**60996 Research in Geography (1-3)**

Individual research problems in geography. IP permissible. Prerequisite: special approval.

**60998 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if the department approves. Repeat registration permitted.

**62062/72062 Behavioral Geography (3)**

Focuses on spatial perception, cognition and behavior. How we collect and process spatial information, behavior in space, locate space and interact in space.

**64040/74040 Seminar in Economic Geography (3)**

Survey of recent literature in economic geography, including industrial and technological change, services and the world economy.

**67091/77091 Seminar in Regional Geography (3)**

Seminar on one of the major regions of the world offered by title in given semester.

**69004/79004 Analysis of Spatial Data (3)**

Application of distance measures and taxonomic techniques, analysis of association between different distributions, explanation and prediction of spatial and temporal trends — regression methods (linear and nonlinear), trend surface techniques, and spatial autocorrelation to the geographic analysis and spatial distributions. Prerequisite: GEOG 39002.

**69009/79009 Spatial Algorithms (3)**

This course explores the methodologies of how to conduct spatial analyses in a computer environment. Half the course will be

in a structured teaching context and half will be project work. Prerequisite: GEOG 4/5/79006.

**69010/79010 Urban Information and Systems Methodology (2)**

Urban information processing procedures for acquiring and using information; research design that emphasizes systems planning prior to research; quantitative methods and stress analysis of statistical results.

**69694/79694 College Teaching of Geography (2-3)**

Staff training and experience in college teaching. S/U grading. Repeat registration permitted up to 10 hours for doctoral students. Maximum of 3 hours applicable toward master's degree requirements (with department's approval).

**69701 Research and Presentation of Geographic Data (3)**

Critical discussion of techniques of geographic research and preparation and presentation of research papers.

**71060 Seminar in Physical Geography (3)**

Research and investigation concerning theories and concepts relevant to formation of physical elements of earth's environment. Direct and indirect relationships of physical processes — human activity and physical environment.

**72061 Seminar in Cultural Geography (3)**

Investigation of theories, concepts and trends in cultural geography. Impact of beliefs, values and attitudes on rural and urban landscape.

**75065 Seminar in the Geography of Transportation (2)**

Concepts and theories of distribution of modes of transportation as geographic factor in spatial analysis of integrated regional development.

**76081 Seminar in Urban Geography (3)**

Theoretical explanations of urban spatial patterns. Application of

contemporary theories, concepts and methods to selected urban geographic problems.

**79007 Quantitative Methods in Geography (3)**

Quantitative methods in the geographic analysis of spatial phenomena. Statistical methods of regional analysis and synthesis.

**79808 Advanced Spatial Multivariate Techniques (3)**

Geographic application of multivariate techniques such as: multidimensional scaling, spatial filtering, and linear programming to the spatial analysis of flows, surfaces and distributions. Prerequisite: GEOG 79007.

**80199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree.

**80299 Dissertation (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GEOG 80199.

**80998 Research (1-15)**

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits earned may be applied toward degree if department approves. Repeat registration permitted. IP permissible.

**81091 Research in Physical Resources (2-3)**

Research on basic processes related to formation of physical environment. Investigation of significant variables in resource utilization relevant to regional planning and development. IP permissible.

**81098 Research in Urban Climatology (2-3)**

Research on basic climatological processes both macro and micro by use of established instrument stations. Influence of expanding urbanization on climatic modification. IP permissible.

**82091 Research in Human Resources (2-3)**

Research on basic processes related to formation of cultural environment. Investigation of significant variables in human resource allocation and utilization, manpower, education, etc., as factors in growth and development of region. IP permissible.

**89082 Foreign Field Research (1-5)**

Application of field, statistical and cartographic techniques to methodological or conceptual problems in foreign region. Emphasis on research design. IP permissible. Prerequisite: special approval.

**89092 Graduate Field Camp (5)**

Field research problems involving individual investigation of specific urban or rural region.

**89098 Research in Cartography (1-3)**

Investigations into function of map as medium of scientific expression; problem of map design in relation to human perception of graphically expressed spatial information.

**Graduate Geology (GEOL)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50093/70093 Variable Title Workshop in Geology (1-8)**

Workshop or training program focused on a specific professional or disciplinary topic within geology. Repeat registration permitted. S/U grading. Prerequisite: special approval.

**50095 Selected Topics in Geology (3)**

Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**51025 General Geophysics (3)**

Physics of earth. Seismology; geomagnetism; heat flow, radioactivity, geochronology, gravity and isostasy, geotectonic models. Lecture 3 hours weekly. Required field trip.

**51073 Geology of Ohio (3)**

Minerals, rocks, fossils, structural geology, physiography, environmental geology, geologic resources. Required field trips. Does not satisfy requirements for major in geology.

**51075 Geology of the United States (3)**

Distribution of natural regions and geologic features of the United States. Geologic concepts illustrated by detailed examination of selected areas. Prerequisite: GEOL 31070 and 31080.

**51077 Geology of the National Parks (3)**

Introduction to the geology of selected major national parks, emphasizing basic geologic principles and processes which have produced the spectacular scenery, rocks and fossils in each park. Does not satisfy requirements for major in geology.

**51079 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 for major in geology.

**51080 Tectonics and Orogeny (3)**

Introduces advanced concepts of plate tectonics and mountain

building with emphasis on western United States and Appalachians. Required field trip. Special fee: \$40.

**51092 Summer Field Camp (6)**

Five weeks devoted to geologic mapping and solving structural and stratigraphic problems in Black Hills, South Dakota. IP permissible. Special fee: On actual cost basis.

**52030/72030 Remote Sensing (3)**

(Cross-listed with GEOG 5/79030) Computer analysis of multispectral satellite datasets. Applications in Terrestrial Earth Science are emphasized.

**52035/72035 Scientific Method in Geology (3)**

Applying scientific method in the field and lab; models and sampling procedures. Collecting and analyzing data. Formulating and testing hypotheses. Lecture two hours, lab two hours.

**52067 Introductory Hydrogeology (3)**

Occurrence of groundwater in geologic materials; emphasizing utilization, conservation and management of groundwater resources. Lecture 2 hours, laboratory 2 hours weekly.

**52068 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.

**52069/72069 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. Lecture 3 hours weekly.

**52074 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.

**52078 Engineering Geology (4)**

Engineering properties of soils and rocks. Site evaluation for building foundations, dams, tunnels and highways. Slope stability. Lecture 3 hours, laboratory 2 hours weekly. Special fee: \$40.

**53040 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.

**53066 Optical Petrography (3)**

Theory of optical crystallography and the microscopic examination and identification of igneous, sedimentary and metamorphic rocks in thin section. Lecture 2 hours, laboratory 2 hours weekly.

**5/74052 Glaciers and Glaciation (3)**

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.

**54070 Principles of Stratigraphy (4)**

Basic concepts of physical stratigraphy and stratigraphic practice. Required field trips.

**54074 Plaeoceanography (3)**

A broad spectrum of geological approaches, including paleontology, geochemistry and stratigraphy, is employed to interpret the history of Earth's oceans.

**60080/70080 Research Orientation (1)**

Faculty research presentations; thesis/dissertation proposal preparation; discussion of professional organizations, preparation of manuscripts, and oral

presentation of papers. S/U grading.

**60091/70091 Seminar (1 or 2)**

Specialized topics in geology. Precise title to be inserted in Schedule of Classes.

**60094/70094 College Teaching of Applied Geology (1)**

Training and experience in presentation of data and college teaching of applied geology, as well as a discussion forum on professional ethics and responsibilities.

**60095 Selected Topics in Geology (3)**

Selected topics presented by visiting professors or one-time offerings presented by regular faculty.

**60098 Research (1-15)**

Research for master's-level students. Credits earned may be applied toward degree if department approves. Repeat registration permitted. S/U grading; IP permissible.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GEOL 60199.

**61020/71020 Advanced Structural Geology (3)**

Theoretical and applied studies in structural geology, including mechanical, mathematical, model and field investigations. Required field trip. Prerequisite: GEOL 31080.

**61050/71050 Precambrian Geology (3)**

Study of earth history and processes during the Precambrian, including role of plumes, meteorite bombardment, and tectonic processes on crustal evolution. Covers age of the Earth, formation

and growth of crust, superplumes and supercontinents.

**61093/71093 Workshop in College Teaching (1-2)**

Workshop in college teaching. S/U grading.

**61094/71094 College Teaching (1-2)**

**62011/72011 Hydrology (3)**

Introduction to hydrologic measurements, properties of water, precipitation, evapotranspiration, runoff computations, streamflow and flood routing. Prerequisite: GEOL 32066.

**62025/72025 Exploration Geophysics (3)**

Application of magnetic, gravity, seismic and electrical methods to the solution of geologic problems and in resource exploration involving practical study in selected areas.

**62063/72063 Computer Simulation in Geology (3)**

Spatial and temporal considerations in geoscience simulations. Use of geological data in modeling verification and validation of models. Display techniques. Sensitivity and Monte Carlo analyses.

**62065/72065 Modeling in Hydrogeology (3)**

Advanced study, construction and application of a variety of modeling techniques to solve groundwater-related problems. Design, construction, programming and operation of analog and numerical models. Prerequisite: GEOL 6/72068.

**62066/72066 Quantitative Geomorphology (3)**

Interactions of land-forming systems. Slope processes, erosion, stream hydrology including runoff relations and discharge curves. Algebra of streams and topologic structure. Lecture 2 hours, laboratory 1 hour weekly. Prerequisite: GEOL 32066 and 4/5/72035.

**62067/72067 Geophysical Fluid Dynamics (3)**

Consideration of basic physical equations of fluid flow. Application to hydraulics, atmosphere, oceans and mechanics of ice motion. Numerical and computer implementation.

**62068/72068 Advanced Hydrogeology (3)**

Quantitative approach to occurrence of groundwater; methods of investigation, evaluation and development of groundwater resources, emphasizing optimization and maximal exploitation without environmental changes.

**62070/72070 Geology and the Law (3)**

Legal aspects of the practice of geology as a profession. Emphasis is placed on the sources of the law that affect the practice both substantively and procedurally.

**62079/72079 Advanced Engineering Geology (3)**

Role of geology in site selection, design and construction relative to dams, tunnels, highways, slope stability and nuclear power plants. Selected case histories. Lecture 3 hours weekly. Field trip and term paper required. Prerequisite: GEOL 4/52078.

**62082/72082 Introduction to Soil Mechanics (4)**

Engineering properties and engineering behavior of soils including classification properties, compaction, permeability, strength and compressibility. Lecture 3 hours, laboratory 2 hours weekly.

**62083/72083 Rock Slope Stability (3)**

Provide information used to recognize, avoid, design for, control and correct slope movements in rocks; determination of shear strength along rock discontinuities; stability analysis of rock slopes.

**62084/72084 Foundation Engineering (3)**

Seepage and drainage of foundation soils. Subsurface investigations. Principles, design and construction

of shallow and deep foundations. Earth-retaining structures. Lecture 3 hours weekly. Prerequisite: GEOL 4/52078 or GEOL 4/5/72082.

**63045/73045 Advanced Geochemistry (3)**

Advanced study of selected topics in low temperature and/or high temperature geochemistry, including principles of phase equilibria and applications to geochemical systems. Prerequisite: GEOL 4/53040.

**63046/73046 Radiogenic Isotope Geology (3)**

Distribution and production of radiogenic isotopes in the Earth's crust. Principles of isotopic geochronology in selected mineral-rock systems, including: Rb-Sr, U-Th-Pb, and K-Ar. Modern instrumental methods of isotopic analysis and in-situ geochronology of rocks and minerals. Prerequisite: GEOL 4/53040.

**63047/73047 Selected Instrumental Methods of Geochemical Analysis (3)**

Selected spectroscopic techniques commonly used in analysis of geological samples. Laboratory teaches geological sample preparation, analytical methods development, and operation of chemical instrumentation. Prerequisite: GEOL 4/53040.

**63052/73052 X-Ray Crystallography (3)**

Investigation of crystalline materials by their diffraction of X-radiation. Applications of the powder method in mineralogy are emphasized. Lecture 2 hours, laboratory 2 hours weekly. Prerequisite: special approval.

**63055/73055 Advanced Igneous and Metamorphic Petrology (3)**

Petrogenic processes relevant to evolution of selected rock groups. Petrologic techniques and methods of analysis. Microscopic study of selected rock suites. Required field trip. Prerequisite: GEOL 4/53066.

**63063/73063 Sedimentary Petrology (3)**

Classification, texture, composition,

provenance and diagenesis of sandstones and carbonates, following review of optical mineralogy. Petrographic microscopy and other laboratory techniques are emphasized.

**63067/73067 Carbonate Rocks (3)**

Basic principles of carbonate sedimentology including composition, classification origin and distribution of carbonate sediments, their diagenesis and lithification. Prerequisite: GEOL 4/53066.

**63069/73069 Clay Mineralogy (3)**

Clay mineral classification, structures, identification. Formation, geochemical principles, chemical weathering, diagenesis, metamorphism, wallrock alteration. Industrial uses, engineering applications. Lecture 2 hours, laboratory 2 hours weekly.

**63085/73085 Geochemical Exploration (3)**

Distribution and mobility of the elements. Sampling techniques; analytical methods. Primary dispersion. Secondary dispersion in sediment, soil, water, vegetation. Lecture 2 hours, laboratory 2 hours weekly.

**64028/74028 Paleoecology (3)**

Relationships between ancient organisms and their environments, as interpreted from fossils, enclosing rock strata and recent analogs. Field and laboratory studies. Saturday field trips.

**64030/74030 Systematic Invertebrate Paleontology I (3)**

Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Protista, Porifera, Cnidaria and Bryozoa. Numerous oral reports, specimen examination.

**64032/74032 Systematic Invertebrate Paleontology II (3)**

Detailed investigation and examination of important literature concerning taxonomic characters of invertebrate phyla: Brachiopoda, Mollusca, Arthropoda and

Echinodermata. Numerous oral reports, specimen examination.

**64034/74034 Micropaleontology (3)**

Study of more important microfossil groups found in geologic record, emphasizing Foraminiferida, Ostracoda and Conodonts. Techniques for collecting, preparing and studying microfossils.

**64036/74036 Cenozoic Climate Change (3)**

An overview of the concepts and principles involved in interpreting global and hemispheric Cenozoic climate change (past 65 million years). Emphasis on particular temporal and spatial scales and cycles. Extensive reading in scientific journals.

**64038/74038 Pleistocene (3)**

An overview of significant topics and applications in paleoclimatology of Holocene (last 10,000 years) and Pleistocene (last 2 million years) records, including current issues in environmental and climatic reconstruction. Extensive reading in scientific journals.

**64065/74065 Sedimentology (3)**

Fluid dynamics, grain transport, sedimentary structures, granulometry, bedform and facies sequences, and facies architecture. Interpretation of continental and marine clastic depositional environments and processes.

**64067/74067 Tectonics and Sedimentation (3)**

The distribution and migration of depositional sedimentary environments as a function of tectonic regime, climate and time. Prerequisite: GEOL 6/74065.

**64071/74071 Advanced Stratigraphy (3)**

Advanced graduate consideration of stratigraphic problems, procedures and analyses.

**80091 Seminar in Applied Geology (1)**

Specialized topics in applied geology. Precise title to be inserted in Schedule of Classes.

**80095 Advanced Topics in Geology (3)**

Advanced topics presented by visiting professors or one-time offerings presented by regular faculty. Prerequisite: special approval.

**80098 Research (1-15)**

Research for doctoral students. Credits earned may be applied toward degree if department approves. Repeat registration permitted. S/U grading; IP permissible.

**80199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GEOL 80199.

**Graduate German (GER)**

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*The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**51095 Special Topics (1-4)**

Topic announced in Schedule of Classes. May be repeated when content varies.

**51096 Individual Investigation (1-3)**

Independent investigation of problems in German language or literature. Permission of the department chair required. May be repeated. IP permissible.

**51212 Stylistics (3)**

Development of written German style through selected readings, textual analysis and stylistic exercises.

**51216 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 discussion. Taught in German.

**51330 20th Century German Authors (3)**

A survey of the major movements and authors of the 20th century.

**51331 History of German Literature (4)**

History of the development of German literature from 750 to the present.

**51332 German Literature by Women (3)**

Readings of works by female German authors. Taught in German.

**51334 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.

**51365 Classical German Literature (3)**

Reading and critical analysis of major works of the Classical Age with emphasis on Goethe.

**51731 Survey of German Cinema (3)**

A survey of major contributions to the German cinema from the beginnings to the present; taught in German.

**61001 Graduate Research and Writing in German (3)**

Individual instruction and assistance with problems encountered in academic research and writing in German. Required of all graduate students in their first semester of graduate work.

**61010 The Practice of German Translation (3)**

Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010.

**61091 Variable Topic Seminar (3)**

Topic announced in Schedule of Classes. May be repeated when content varies.

**61199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

**61200 History of the German Language (3)****61240 Literary and Cultural Translation (3)**

Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into German will also be emphasized.

**61250 Commercial, Legal and Diplomatic Translation (3)**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010.

**61251 Scientific, Technical and Medical Translation (3)**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010.

**61299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: GER 61199.

**61350 Seminar on the Lyric (3)****61353 Seminar on the Novel (3)****61354 Seminar on German Drama (3)****61361 Seminar on the Baroque (3)**

Readings in German literature and poetics of the 17th century.

**61366 Seminar on Romanticism (3)**

**61398 Research (1-15)**  
Research for master's-level graduate students. Credit toward degree requirements may be given with department approval. Repeat registration permitted. IP permissible. Prerequisite: special approval.

**\*61901 Reading German for Graduate Students (4)**  
Introduction to the fundamentals of German grammar for graduate students. Practice in reading and translation.

**\*61902 Reading German for Graduate Students (3)**  
Continued practice in reading and translation. Independent study of scholarly texts in the student's own discipline. Prerequisite: GER 61901.

**61979 Case Study in Translation (3)**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. S/U grading. Prerequisite: special approval.

*\*Credit hours earned in this language sequence are not applicable toward the completion of the hour requirement in a student's graduate program and do not count toward the minimum 8-hour semester load required.*

**Graduate Gerontology (GERO)**

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*The prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**51093 Variable Title Workshop in Gerontology (1-3)**

Workshop setting dealing with a topic or topics in the field of gerontology. Prerequisite: Graduate student standing. S/U grading.

**51095 Special Topics in Gerontology (1-4)**

Discussion of a major topic or topics within the field of gerontology.

**51096 Individual Investigation in Gerontology (1-3)**

Independent study in the area of gerontology.

**54030 Adult Development and Aging (3)**

Examines development processes across adulthood. Evaluation of theoretical models and scientific literature.

**54032 Long Term Care Administration (3)**

Presents an overview and introduction to the principles of long-term care (LTC) administration and other administration options.

**54092 Practicum in Gerontology (3-10)**

Observation and participation in long-term care (LTC) administration and other administration options.



**61091 Seminar in Gerontology (1-3)**

Seminar dealing with topics in the field of gerontology.

**61191 Interdisciplinary Seminar in Gerontology (3)**

Course is designed to assist students in developing the knowledge and skills needed to understand major issues in gerontological theory, research and practice from a multidisciplinary perspective.

**64022 Family Life in the Later Years (3)**

Research on families in the later years is reviewed, with a particular emphasis on its utility to family life practitioners.

**Graduate Human Development and Family Studies (HDFS)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**51093 Variable Title Workshop in 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.

**51095 Special Topics in Human Development and Family Studies (1-4)**

Discussion of a major topic within human development and family studies.

**51096 Individual Investigation (1-3)**

Independent study in human development and/or family studies.

**54019 Intergenerational Experiences (3)**

Provides students practical experience in working with older adults in a structured setting. The focus of activities will be 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.

**54020 Adolescent Development (3)**

Adolescent development with emphasis on forces related to adolescent behavior. Evaluation of current research. Prerequisite: Family Studies (FS) major.

**54021 Family Intervention Across the Life Span (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: Family Studies (FS) major.

**54023 Building Family Strengths (3)**

The Building Family Strengths Model builds upon family life potential, based on extensive research emphasizing identified

family strengths.

**54028 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: Family Studies (FS) major.

**54029 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: Family Studies (FS) major.

**54031 Intergenerational Family Caregiving (2)**

Intergenerational concerns of family caregivers across the lifespan, coping resources, formal and informal support systems.

**54037 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. Common elements of PYD programs are explored, such as emphasizing youths' strengths, providing opportunities to learn health behaviors, promoting positive peer relationships, connecting youth with caring adults, empowering youth to assume leadership roles, and challenging youth in ways that build their competence. Implications for professional child and youth work are discussed. Students complete a program development project. Prerequisite: HDFS 54020.



**54038 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, culture 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 to be explored. Students complete a program development and evaluation project. Prerequisites: HDFS 54037 and human development and family studies (HDFS) major.

**54092 Practicum in Human Development and Family Studies (3-10)**

Observation and participation in services offered by family and childcare agencies. Prerequisite: Family Studies (FS) major.

**55514 The Consumer Family in Today's Society (2)**

Study of current and future role of consumer families relevant to consumption, alternatives and priorities.

**61018 Techniques of Research in Family and Consumer Studies (3)**

Introduction to the types of research and methods of data collection applied to a project of student's choice.

**61091 Seminar (2-3 in each area)**

Evaluation and interpretation of recent literature in human development and/or family studies. Topic selected for semester will be indicated in the Schedule of Classes.

**61098 Research (1-15)**

Research for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Repeat registration permitted. IP permissible.

**61198 Master's Project (2-6)**

Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester. Distributed over several semesters if desired. S/U grading; IP permissible.

**61199 Thesis I (2-6)**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**61299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: HDFS 61199.

**64022 Family Life in the Later Years (3)**

Research on families in the later years is reviewed, with a particular emphasis on its utility to family life practitioners.

**64023 Family Theories and Processes (3)**

An examination of theories and research for understanding family dynamics and changes in families across the lifespan. Includes attention to diverse family structures, dyadic and group processes applicable to families, and social and cultural contexts.

**64024 Family Life Education (3)**

Developing community acceptance, teaching aids and techniques, and curriculum for family life education.

**64025 Studies in Child Rearing (3)**

Review and critical analysis of selected child-rearing studies in contemporary American society.

**64027 Early Adolescence (3)**

Examines the fundamental changes, social contexts and psychosocial processes involved in human development from ages eight through 15. Implications for working with this age group within schools and human service agencies.

**65516 Family Resource Management (3)**

Examines resource and financial management across the life cycle.

**Graduate Health Education and Promotion (HED)**

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*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**50093/70093 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.

**51561 Environmental Health (3)**

Effects on human health of overpopulation, and various sources of energy and the resultant environmental pollutants.

**52041 Health Counseling (3)**

Techniques of counseling applied to health education. Individual and group approaches relative to personal, family and societal-health issues. The course includes 20 field/clinical hours.

**52575 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.

**54025 Women's Health Issues (3)**

Traditional and feminist analysis of women's health issues and the health educational responses to those issues.

**54095/74095 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.

**54096/74096 Individual Investigation in Health Education and Promotion (1-3)\***

Independent reading and/or research directed by a graduate faculty member. S/U grading; IP permissible. Prerequisite: special approval.

**54543 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.

**54544 Sexuality Education Programs (3)**

This course prepares the student to develop, implement and evaluate sexuality education programs in school and community settings.

**54550 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.

**54565 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.

**56052 Stress: Recognition and Management (2)**

An examination of stress, its role as a predisposing factor for various illnesses and diseases, types of stressors, the body's reaction to stress, and techniques for recognizing, preventing and reducing stress.

**56057 Advanced Human Sexuality (3)**

Selected aspects of human sexuality: history, cross-cultural perspectives, medical/surgical therapy and counseling.

**56060 Death Education (3)**

Issues of living with the human experience of death and facilitating understanding with selected client systems in schools and community agencies.

**56070 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.

**57070 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.

**57091/77091 Current Issues and Trends in Health Education and Promotion (1-3)**

Public health issues facing professionals in communities, schools, health care settings and the worksite.

**58092/78092 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 permissible. Prerequisite: special approval.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.  
Prerequisite: HED 60199.

**64010/74010 Health Informatics (3)**

Systematic application of information and computer science and technology to health practice, research and learning. Course teaches health informatics competencies for health professionals.

**64030/74030 Introduction to Research and Data Analysis in Health Education Promotion (3)**

Introduction of research methods in the field of health education and health promotion. Includes basic knowledge and skills in research design and concepts of descriptive and inferential statistics.

**64050/74050 Health Behavior (3)**

Analysis of a broad range of theoretical and empirical models of health and illness behavior.  
Prerequisite: HED 64010 and 64061.

**64051/74051 Biobehavioral Aspects of Disease (3)**

The etiology and pathogenesis of major diseases are studied from a biopsychosocial perspective with an emphasis on implications for disease prevention and health promotion. Prerequisite: HED 64072.

**64055/74055 Needs Assessment and Program Planning in Health Promotion (3)**

Students will assess individual and community needs for health promotion programs based on multiple sources of health data. Students will develop a rational plan to meet identified needs.  
Prerequisite: HED 64010, 64050, 64059, 64061, 64063 and 64072.

**64057/74057 Evaluation of Health Promotion Programs (3)**

Reviews basic principles and types of evaluations. Students will develop an evaluation plan to determine effectiveness of program developed in HED 6/74055.  
Prerequisite: HED 64010, 64050, 64055, 64061, 64063 and 64072.

**64058/74058 Developmental Approach to Content and Resources in Health Education (3)**

Focus on examination of six CDC problem priority areas through the lens of developmentally appropriate practice parameters for children and youth.

**64059/74059 Communication and Marketing in Health Education and Promotion (3)**

Introduction to the theory and practice of planning, implementing, and evaluating marketing and communication programs in health promotion. Prerequisite: HED 64010, 64050, 64061 and 64072.

**64060/74060 Grant Writing for Health Education and Promotion (3)**

Focuses on the development of basic grant writing skills for health educators, including the search for funding sources and proposal development.

**64061/74061 Foundations of Health Education and Promotion (3)**

Historical, sociological and philosophical factors that have influenced definitions and the practice of health education and promotion are studied. Professional associations/leadership, government initiatives, standards of practice and accreditations are examined.

**64062/74062 Administration of Health Promotion Programs (3)**

Basic concepts in the administration of health education/promotion programs. Coordination of program services, consultative relationships, management of human and fiscal resources and organizational leadership are addressed.  
Prerequisite: HED 64010 and 64061.

**64063/74063 Strategies in Health Education and Promotion (3)**

Health education and promotion methods, techniques and strategies are presented for a variety of audiences, learning environments and intervention levels.

**64066/74066 Health in the Developing Nations (3)**

Overview of national development, review of problems, process and strategy of health development.

**64070/74070 Worksite Health Promotion (3)**

Program planning and evaluation of health promotion programs in business and industry with an emphasis on the role of health educators.

**64072/74072 Epidemiology (3)**

Overview of history and nature of epidemiological research: definition of problem, design, collection, analysis and presentation of data relevant to the study of disease distribution. Introduction to the logic of statistical inference. Pre- or

Corequisite: HED 64010 and 64061.

**64080/74080 Advocacy and Policy Issues in Health Education Promotion (3)**

Emphasizes the advocacy role of health educators. Includes use of research results to develop, analyze and influence health policy.

**64082/74082 Readings in Health Education and Promotion (1-3)**

Independent study of approved topics in health and safety education related to the student's special interests. Advisor's permission required to repeat registration one time. S/U grading; IP permissible. Prerequisite: Health Education or Public Health major.

**64084/74084 Behavioral Science in the Health Professions (1-3)**

A behavioral science perspective on individual and social issues that affect medical care delivery. Individually arranged. May include field projects, participation in health-related investigations and presentations and personal development programs. Repeat registration permitted. S/U grading.

**64091/74091 Seminar in Health Education and Promotion (1)**

Presentation and discussion of research by faculty and graduate students. Total of 2 credits may be applied toward degree requirements. S/U grading.

**64094/74094 College Teaching of Health Education and Promotion (3)**

Guided experiences in teaching selected undergraduate courses. S/U grading. Prerequisite: special approval.

**64098/74098 Project in Health Education and Promotion (1-3)**

Research or individual investigation for master's-level graduate students. Repeat registration permitted.

Prerequisite: special approval.

**71250 Public Health Practice and Health Promotion (3)**

Examines the roles of health agencies related to the protection and promotion of health, health planning and the health care delivery system.

**71350 Systems Approach to Health Promotion (3)**

In-depth examination of issues which promote and maintain health behavior and prevent lifestyle risks that lead to disease for individuals and groups.

**71450 Evaluation of Preventative Interventions (3)**

A review of evaluation methods used in health education/promotion intervention trials. Emphasis will be placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of results. Prerequisite: HED 6/74055 and 6/74057.

**71550 Application of Theory in Health Education and Promotion Research (3)**

Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs. Prerequisite: HED 6/74050.

**80199 Dissertation I (15)**

Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours. S/U grading; IP permissible.

**80292 Internship in Health Education and Promotion (3)**

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of

dissertation and continuing until degree requirements are met. S/U grading; IP permissible.

**81100 Doctoral Residency Seminar I in Health Education and Promotion (3)**

Exploration of philosophical, theoretical and empirical issues in health education/promotion. Student will synthesize courses, research and practice in preparation for comprehensives. S/U grading; IP permissible. Prerequisite: special approval.

**81150 Seminar: Professional Development in Health Education and Promotion (3)**

This course focuses on the process, practice and documentation of professional development in health promotion in the areas of instruction, program development, community organization and coalition building, research and evaluation. S/U grading.

**81200 Doctoral Residency Seminar II in Health Education and Promotion (3)**

Synthesis and application of health knowledge to development of a philosophical, theoretical and empirical orientation for research. S/U grading; IP permissible. Prerequisite: HED 81100.

**81250 Public Health Practice and Health Promotion (3)**

The role of public health practice and policy in the promotion of the nation's health. A review of the basis/tools/settings/provision of services/future needs of public health will be addressed in the context of health promotion.

**81350 Systems Approach to Health Promotion (3)**

This course will address a variety of issues relevant to health promotion, including philosophy, content, strategies, evaluation, national and

international perspectives utilizing a socio-ecological framework.

### **81450 Evaluation of Preventative Interventions (3)**

A review of evaluation methods used in health education/promotion intervention trials. Emphasis will be placed on data collection procedures, linking program activities to outcomes, participant attrition and reporting of the results. Prerequisite: HED 6/74055 and 6/74057.

### **81550 Application of Theory in Health Education and Promotion Research (3)**

Examination of theory/models/hypotheses applied to specific health behaviors. Emphasis on operationalization of theoretical constructs. Prerequisite: HED 6/74050.

## **Graduate Higher Education Administration and Student Personnel (HIED)**

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*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **66492/76492 Internship in Higher Education Administration (3-6)**

Field-based internship requiring a separate project as designated by the program area faculty. Specific topics are outlined and shared at meetings prior to beginning internship.

### **66521/76521 Employment Law (3)**

Study of public and private sector bargaining law and all terms and conditions of employment. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE).

### **66594/76594 Internship in College Teaching (3)**

Application of course and lesson planning; instructional and evaluation skills under faculty supervision; lecturing, guiding group performance and evaluating performances. Arrangements made on individual basis. IP permissible. Prerequisite: At least 12 hours in higher education.

### **66595/76595 Special Topics in Higher Education Administration (3)**

Specialized offerings in response to emerging or selected program needs.

### **66596/76596 Individual Investigation in Higher Education Administration (2-4)**

Projects as assigned. Prerequisite: special approval.

### **66598/76598 Research in Higher Education Administration (2-4)**

Projects as assigned. Prerequisite: special approval.

### **66600/76600 History of Higher Education (3)**

(Cross listed: CULT 69567/79567) Overview and exploration of history of higher education in the United States. Survey course covers ancient and medieval European antecedents, but focuses largely on American higher education from the seventeenth through the 20th century. Students explore changes in student body, curricula and purposes of higher education in the U.S. in the context of American

culture.

### **66601/76601 Private Liberal Arts College (3)**

Explores a unique type of institution in American higher education, the private liberal arts college. Identifies common themes and challenges across institutions, as well as the nature of specific examples of institutions. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration-Higher Education (EDHE).

### **66650/76650 Organization and Administration of Higher Education (3)**

Provides students with an understanding of organization and structure of institutions of higher education. Content includes study of academic administration and academic advising.

### **66651/76651 Student Affairs Functions in Higher Education (3)**

Study of the history, philosophy, practices and organization of student affairs functions in higher education.

### **66652/76652 Law and Higher Education (3)**

Provides for the examination of major legal aspects of the administration of institutions of higher learning.

### **66653/76653 College Student Development: Theory and Practice (3)**

Study of theories concerning the development of college students and other adults, and principles for translating theory into practice.

### **66654/76654 Students and the College Environment (3)**

Study of the impact of different types of students and college environments on each other within

the context of a changing society.  
Prerequisite: HIED 6/76653 and approval of instructor.

**66655/76655 Case Studies in Higher Education Administration (3)**

Study of management responsibilities and leadership issues of student affairs administrators. Prerequisite: HIED 66652 and 66653 and 66657.

**66656/76656 Higher Education Curriculum (3)**

Introduces perspectives on curriculum development, implementation and assessment in higher education and addresses theoretical, historical, political and contemporary perspectives on higher-education curriculum.

**66657/76657 Leadership in Educational Organization (3)**

By learning to appraise their own leadership styles, students improve their leadership effectiveness and explore the relationship between leadership and college and university effectiveness.

Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration- Higher Education (EDHE).

**66658/76658 The Community College (3)**

A study of the foundations, structure, programs and issues of community college education in the United States.

**66660/76660 Faculty Roles and Responsibilities (3)**

A study of faculty roles and responsibilities in American higher education.

**66662/76662 Politics and Power in Organizations (3)**

This course is designed to provide a conceptual framework for

understanding the multifaceted processes of policy-making that take place in both “internal” and “external” settings.

**66666/76666 Financial Management in Higher Education (3)**

This course is designed to provide students of higher education with the knowledge of financial issues, sources of funds, economics of education, financial roles of professional and academic administrators and the financial management skills as applicable to institutions of higher education.

**66667/76667 Business Administration in Higher Education (3)**

This course introduces students to the administrative and business management of institutions of higher education. The course covers topics such as institutional planning, space management, insurance matters, personnel administration, purchasing and facility management. Prerequisite: HIED 6/76657.

**66668/76668 The Administration of Distance and Continuing Education Programs in Higher Education (3)**

Develop practical skills for leading continuing and distance education programs as educational institutions seek to meet the needs of students in an era of lifelong learning. Includes planning, managing, budgeting and marketing in an academic environment. Prerequisite: Major in Higher Education and Student Personnel (EAHE), or Educational Administration-Higher Education (EDHE).

**66669/76669 Administration of Student Disability Services in Higher Education (3)**

Understanding the legal and practical issues regarding the

identification, accommodation and matriculation of students with disabilities into colleges and universities.

**66670/76670 Internationalization of Higher Education Institutions(3)**

Students study the historical and current development of the internationalization of higher education institutions; explore higher education administrative leadership characteristics, social/political/economic factors, and national and international relationships that have affected various countries and regions; and examine rationales behind internationalization of higher education institutions, its meaning and approaches, and the different strategies and organizational models in different types of higher education institutions.

**66671/76671 The Administration of Multiculturalism and Diversity in Higher Education (3)**

Course covers racial/ethnic and inclusive diversity and multiculturalism in U.S. higher education settings. Diversity is discussed from a historical perspective, providing a context for contemporary experiences described by and about students, staff, faculty and administrators. Main topics include multiculturalism in higher education in light of inclusive education; racial and ethnic diversity in higher education history; benefits of diversity; faculty issues; student issues; curriculum and pedagogy matters; research issues; law and policy issues; and strategic planning for institution diversity in higher education.

**66672/76672 International Students and American Colleges (3)**

Bridging theory and application with an emphasis on the latter. The

course begins with a national perspective and then concentrates on the various aspects and best practices of recruiting and supporting international students at the institutional level.

**66673/76673 Research in Administration of International Higher Education (3)**

Examines and analyzes research related to high education administration in the field of international and global education. Implications for application of findings for improvement of colleges and universities at home and abroad will be thoroughly discussed. Prerequisite: Major in Higher Education and Student Personnel (EAHE), or Educational Administration- Higher Education (EDHE).

**66674/76674 Comparative Higher Education (3)**

Students learn the differences between comparative, international and cross-border education. They reflect on how the United States higher education system grew out of specific historical, cultural, and socio-economic contexts and analyze the higher education systems and structures of other selected countries and regions, focusing on the contexts which have influenced their development. Students examine emerging trends in the globalization of qualifications frameworks and quality assessment standards, and define their own positions in aspects of the universal criteria/local contexts debate. Prerequisite: Major in Higher Education and Student Personnel (EAHE), or Educational Administration- Higher Education (EDHE).

**66675/76675 Design and Delivery of Education Abroad Programs (3)**

Participants examine the many critical aspects of designing, planning and implementing an education abroad program; analyze its components, and, with others, design a new program. Students also consider the institutional contexts in which the program design occurs, on a campus or third party organizational level, including design decisions about curriculum content and program delivery mechanisms, co-curricular activities, safety issues and more. Students also develop skills in conducting needs assessments and program evaluations.

**66676/76676 Intercultural Communication for International Educators (3)**

Students examine both classic and evolving intercultural communication theories, with an emphasis on the practical application of those theories to working in intercultural environments in higher education. Students analyzed cultural influences on individuals, through the reading of cultural biographies and reflection on cultural influences in their own lives. Definitions of intercultural competence and strategies for intercultural learning, particularly in higher education contexts, are reviewed, with implications for program design in education abroad, work with international students, and other international education contexts, as relevant.

**66677/76677 Workforce, Economic and Community Development in Community Colleges (3)**

Within the context of social, economic, and technology shifts, this course examines the role of the community college in workforce,

economic and community development.

**66678/76678 Issues and Trends in Community College Administration (3)**

Addresses current salient issues in community college administration. A variety of topics are examined as related to challenges for community college leaders arising from social, economic and political shifts.

**66733/76733 Interpersonal and Group Dynamics in Educational Organizations (3)**

Participants work in task groups learning about interpersonal, group and intergroup dynamics in organizations through lectures, discussions and analysis of their in-group experiences.

**66740/76740 Theories and Methods of Organizational Development (3)**

(Cross-listed with CHDS 67840) Study of theorists/practitioners in organization development. Involves exploration of consultant role, intervention theory, methods of systems change applied to groups and organizations. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration- Higher Education (EDHE).

**66749/76749 Assessment and Evaluation in Higher Education (3)**

This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. Topics will span from individual classroom assessment through institutional accreditation processes.

**80080 Dissertation Preparation Seminar (3)**

Gain an in-depth understanding of the dissertation writing process. Complete dissertation proposal.

Prerequisites: special approval.

**80085 Legal Research in Education (3)**

(Cross-listed with CULT 80085)  
Methods of legal research, case analysis and a “uniform system of citation” are studied. Prerequisite: Major in Higher Education and Student Personnel (EAHE) or Educational Administration- Higher Education (EDHE).

**80199 Dissertation I (1-15)**

Doctoral dissertation for which registration in at least two semesters is required, the first of which is a semester in which dissertation work is begun and continuation of 30 hours. Prerequisites: special approval.

**80299 Dissertation II (1-15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. Prerequisite: HIED 80199.

**86521 Advanced Education Law (3)**

This doctoral-level course is designed to provide the opportunity for students to gain additional knowledge in the education law area; to improve writing skills; to begin writing for publication; to critically review their own work as well as work of others; and to defend their work before their peers. Prerequisite: HIED 6/76520, 6/76652 or 6/76518.

**86559 Advanced Student and Adult Development (3)**

Helps develop an in-depth understanding of one or more current theories of student or adult development. Students will gain additional knowledge in student development theory and theory creation. Prerequisite: Major in Higher Education and Student

Personnel (EAHE) or Educational Administration-Higher Education (EDHE).

**Graduate History (HIST)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50093 Workshop in History (1-6)**

Special workshop in history. Topic will vary according to professor. S/U grading.

**50197/70197 America's Cultural Heritage: The Arts and Society (3)**

An examination of selected American arts in their cultural context. American studies methodologies and concepts of history.

**51000/71000 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).

**51003/71003 History of Ancient Greece (3)**

The course is a survey of Greek history from the Bronze Age to the rise of Macedonia and Alexander the Great.

**51004/71004 Hellenic Contributions to Western Civilization (3)**

An introduction to the major intellectual and cultural achievements of the Greeks-ca. 800-350 BC.

**51006/71006 Roman History (3)**

A survey of Roman history from its beginnings to the Fall of the Roman Empire.

**51010/71010 The Early Middle Ages (3)**

A survey of the major political, social and cultural developments of Europe from the fourth through the tenth century.

**51011/71011 The High Middle Ages (3)**

A survey of political, social and cultural developments of Europe from the eleventh through the thirteenth century.

**51014/71014 Europe in the Renaissance (3)**

An analysis of the various factors leading Europe from a rural, feudal, ecclesiastical society to one characterized by urbanism, trade, secularism and the state.

**51016/71016 The Protestant Catholic Reformation (3)**

A comprehensive course dealing with the religious, political, economic and social change accompanying the religious upheavals of the 16th century.

**51017/71017 17th Century Europe (3)**

This course will analyze those political, economic, social, religious and intellectual factors leading to economic crisis and civil wars in Europe.

**51018/71018 18th Century Europe (3)**

This course will analyze the many different factors and unresolved crises of the 17th century that led to revolution throughout Europe.

**51020/71020 19th Century Europe (3)**

Focus on industrialization and social transformation, political upheavals, intellectual thought, nationalism and foreign policy in Great Britain, France, Prussia and Austria.

**51024/71024 Modern European History, 1914-1945 (3)**

Special attention paid to the two World Wars, Bolshevik Revolution, rise of Fascism and fate of European Jewry.



**51025/71025 Modern European History: 1945 to Present (3)**

Survey of European political, economic, social and cultural developments since 1945.

**51026/71026 Tudor England 1485-1603 (3)**

Early Modern England with an emphasis on the Renaissance, Reformation, social change and the Tudor monarchs, Henry VIII and Elizabeth.

**51040/71040 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.

**51041/71041 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.

**51044/71044 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.

**51045/71045 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.

**51049/71049 History of the Balkans: 18th Century to 1914 (3)**

Survey of the Albanians, Bulgarians, Greeks, Romanians and South Slavs under Ottoman domination and their struggles for national independence.

**51050/71050 History of the Balkans: 1914 to Present (3)**

The Balkans since 1914, including coverage of post-World War II

period.

**51051/71051 Politics, Culture and Society of Twentieth Century Europe (3)**

Political, social and cultural change in Europe during the twentieth century. Topics include violence, war, revolution, economic crises and social and political changes.

**51056/71056 History of Colonial America, 1492-1714 (3)**

Major patterns of thought and behavior among Spanish, French and English expansionists; English colonization to 1714.

**51057/71057 18th-Century America, 1714-1789 (3)**

Cultural development of English Colonies; Great War for Empire; American Revolution and Constitution.

**51058/71058 The Jefferson-Jackson Era, 1789-1848 (3)**

A study of the founding and development of the American nation, especially the periods of Jefferson and Jackson.

**51060/71060 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.

**51062/71062 The United States: The Westward Movement (3)**

The process of settlement from its beginning; consequences for American history.

**51065/71065 Sectional Conflict and Civil War (3)**

Differences within the United States, including the controversy over slavery; the Civil War in all its aspects.

**51066/71066 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.

**51070/71070 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.

**51071/71071 American Social and Intellectual History, 1876 to Present (3)**

Continuation of HIST 41070, HIST 51070 and HIST 71070.

Development of social Darwinism, racism, Pragmatism, popular arts.

**51074/71074 American Economic History (3)**

Survey of growth and development of American economic and business life from colonial times to the present.

**51075/71075 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.

**51076/71076 War and Society in the United States from 1865 to the Present (3)**

An examination of the impact of conflict and the military on the society, culture, economy and diplomacy of the United States. Topics include the frontier Army, the Spanish-American War and empire in the Pacific, the two world wars, the Cold War and the War on Terror.

**51079/71079 History of the Immigrant in America (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.

**51082/71082 Constitutional History of the United States (3)**

**51083/71083 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.

**51084/71084 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.

**51087/71087 Progressive America: The United States 1896-1919 (3)**

Major political, economic, social, cultural and diplomatic events from the crisis of the 1890s through the First World War.

**51088/71088 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 the Second World War.

**51089/71089 Recent America: The United States, 1945-Present (3)**

Examines every day 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.

**51097/71097 Colloquium: Saints, Monks and the Medieval Community (3)**

Investigates major religious institutions that shaped medieval European society and the impact on popular piety.

**51112/71112 History of Modern China (3)**

Disintegration of the Chinese empire amid Western challenge and internal disorder and the subsequent rise of Communism.

**51116/71116 History of Japan (3)**

A general survey of the development of Japan from a loose confederation of clans to a modern industrial state.

**51131/71131 History of Africa to 1880 (3)**

**51132/71132 History of Africa, 1880-Present (3)**

**51135/71135 History of West Africa (3)**

**51789/71789 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.

**52140/72140 The Sixties: A Third World View (3)**

Examines the political, social, and cultural upheaval of the 1960s in Latin America, Africa, and Asia.

**52141/72141 Comparative Third World Revolutions (3)**

Examines the twentieth-century revolutions in Latin America, Africa and Asia, focusing on ideologies and political leadership.

**52142/72142 Afro-Latin America (3)**

Course focuses on the social, cultural and political life of the African population of Latin America, from 19th century slaves to shantytown dwellers of megacities such as Rio de Janeiro. Topics include black resistance to racism, race mixture in multicultural societies, and how employment, political participation and family organization empowered the lives of Afro-Latin women.

**52297/72297 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.

**52397/72397 Colloquium: Women in Europe from Antiquity to Renaissance (3)**

This course examines the social, cultural and economic institutions that 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.

**52497/72497 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.

**53097/73097 Colloquium: Medieval Russia (3)**

Political, social, economic and cultural developments from the 9th-17th centuries, particularly the nature of political organization, the Mongol impact, the role of the church and religious life in pre-Petrine Russia.

**53797/73797 Colloquium on Victorian England (3)**

Consideration of distinctive features of Victorian England including class structure, ideas, manners, politics, foreign affairs, empire.

**53800/73800 Religion and Society in the Modern West (3)**

Introduction to recent trends in the writing of European and comparative western religious history. Examines themes across societies with particular emphasis placed on gender, bourgeois culture, national identity, liberalism and democracy, the industrial working classes, race and racism, fascism and communism.

**54297/74297 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.

**55597/75597 Colloquium in Russian History (3)**

**55697/75697 Colloquium: Social History of Latin America (3)**

The formation of Latin American societies from the Iberian Conquest to the present.

**55797/75797 Colloquium: Comparative Latin American Revolutions (3)**

Four major Latin American revolutions, the Mexican, Cuban, Chilean and Nicaraguan, are analyzed in a comparative framework.

**56097/76097 Colloquium: Stalinism (3)**

Focus on Stalin's rise to power and the historiographical debates about the origins, results and legacy of his domestic and foreign policies.

**56597/76597 Colloquium in 20th-Century European Diplomacy (3)**

Coverage of important works dealing with major diplomatic issues from origins of World War I to present.

**56897/76897 Colloquium on the Age of Jefferson (3)**

An intensive examination of the problems of a critical period of American history through readings, reports and discussions.

**57597/77597 Colloquium on NATO (3)**

An examination of the historical significance of the Atlantic Alliance from its origins in the late 1940s to the present.

**57697/77697 Colloquium on Post-1945 Europe (3)**

Coverage of Europe's major political, diplomatic, economic and social developments since 1945.

**58097/78097 Colloquium in 20th-Century U.S. Foreign Relations (3)**

Covers U.S. diplomatic history from World War I to the present emphasizing bibliography and historiography.

**58697/78697 Colloquium on U.S. Middle Period, 1820-1900 (3)**

**58797/78797 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.

**58897/78897 Colloquium in African-American History Since 1877 (3)**

This colloquium specializes in African-American history since 1877, with emphasis on historiographical literature of the period.

**59095/79095 Special Topics in United States History (3)**

Special course in the history of the United States, the subject and topic of which varies by term and instructor. Precise titles and descriptions to be inserted in the Schedule of Classes. Repeatable for a maximum of 18 credit hours.

**59195/79195 Special Topics: Europe Since 1500 (3)**

Special course in the history of Europe since 1500, the subject and topic of which varies by term and instructor. Precise title to be inserted in Schedule of Classes.

**59295/79295 Special Topics in Global History (3)**

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. Repeatable for a maximum of 18 credit hours.

**60092/70092 Public History Internship (3-6)**

Students serve an internship at an institution related to their emphasis in public history (e.g., historical society, museum, archives, historical preservation organization).

**61001/81001 Methods of Historical Research (3)**

An introduction to methods of historical research, with an emphasis on behavioral techniques.

**61002/81002 Historiography (3)**

Development of historical thinking. Students will read excerpts of famous historians and prepare papers.

**61024/81024 Seminar in 20th-Century European History (3)**

**61025/81025 Seminar: 20th-Century European Diplomatic History (3)**  
Research and writing on selected problems in the international relations of European states during this century.

**61026/81026 Seminar in Tudor England (3)**

**61065/81065 Seminar in American History: The Civil War Period (3)**

Research and writing on aspects of mid-19th century United States history.

**61067/81067 America: Reunited Nation to World Power, 1877-1900 (3)**

Background lectures, weekly discussions of assigned readings, research paper.

**61069/81069 Seminar in Recent American History (3)**

Lectures, readings and class discussions aimed toward the production of a scholarly paper on a limited aspect of American history since 1900.

**61074/81074 Seminar in 19th-Century America (3)**

**61083/81083 Seminar in American Diplomatic History (3)**

Selected problems in American foreign policy and in American foreign relations from 1776 to the present.

**61091/81091 Seminar in African-American History (3)**

Seminar in selected topics in African-American history from the

17th century through the 20th century.

**62097/72097 Public History Colloquium (3)**

Assigned readings, discussions and papers focus on particular emphases and skill areas in public history.

**62197/82197 Colloquium on Problems in Medieval History (3)**

**62997/82997 Colloquium in Early Modern Europe (3)**

Systematic reading and research in the history of early modern Europe: 1598-1815.

**69199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**69299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: HIST 69199.

**69894/79894 College Teaching of History (2-3)**

S/U grading; IP permissible.

**69896/89896 Individual Investigation (2-3)**

IP permissible.

**69898/89898 Research (1-15)**

S/U grading; IP permissible.

**89199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible.

**89299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: HIST 89199.

**Graduate Hospitality Management (HM)**

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[Course Descriptions Spring 2011](#) > Graduate Hospitality Management (HM)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**53025 Hospitality Marketing (3)**

Application of marketing principles, practices and theories relevant to hospitality organizations. Internet marketing in hospitality. Case studies drawn from the hospitality industry are incorporated.

**53027 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 and current controversies are incorporated.

**53029 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.

**53030 Food Service Systems Management (3)**

The study of food services systems management, including menu planning and evaluation, recipe development, purchasing, equipment, financial management, marketing and human resources.

**53040 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.

**53043 Hospitality Meetings Management (4)**

Exploration of the unique issues associated with managing hospitality meeting and event planning. Emphasis on management of social, association, and corporate events: weddings, reunions, award banquets, receptions, and annual meetings held in hospitality venues requiring food and beverage and/or lodging.

**61098 Research in Hospitality Management (1-15)**

Research for master's-level graduate students. Credit earned may be applied toward meeting degree requirements if school approves. Prerequisite: special approval.

**61198 Master's Project in Hospitality Management (2-6)**

Completion and successful defense of master's project. Master's project students must register for a total of 6 credit hours, 2 to 6 in a single semester; distributed over several semesters if desired. Prerequisites: special approval.

**61199 Thesis I (2-6)**

Thesis students register for a total of 6 credit hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. Prerequisite: special approval.

**61299 Thesis II (2)**

Thesis II students must continue registration each semester until all degree requirements are met. Prerequisite: HM 61199.

**63022 Current Issues in Hospitality and Tourism Management (3)**

Current research and management issues in hotels, resorts, restaurants, clubs and other hospitality operations are explored through the peer-reviewed and professional literature. Current tourism topics with implications for hospitality managers are included.

**63024 Management of Food and Nutrition Services (3)**

Management issues in health care, food and nutrition services, child nutrition programs and other noncommercial food services will be examined. The impact of quality standards, public policy and current societal trends upon management of noncommercial operations will be studied.

**63026 Research Seminar (1)**

Presentation and discussion of research and projects by students and faculty. Course may be repeated once for a total of 2 credit hours to be applied toward degree requirements. Corequisite: ELS 63098 or 63199 or 63299; or HM 61198 or 61199 or 61299.

**63095 Special Topics in Hospitality Management (1-3)**

Specialized offering of a major topic within hospitality management.

**Graduate Health Policy and Management (HPM)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing.*

*Additional prerequisites may apply and are listed in this catalog.*

**50196 Individual Investigation in Health Policy and Management (1-3)**

Individual graduate investigation or research in areas related to health policy and management. Repeated registration permitted for a maximum of 6 credit hours. IP permissible. Prerequisite: special approval.

**52015/72015 Emerging Issues in Public Health Policy and Management (3)**

An overview of emerging challenges in public health policy and management. Examples include pandemic H1N1 response, biopreparedness, national health care reform, public health financing challenges, global tuberculosis drug resistance.

**52016 Public Health Administration (3)**

Public health administration comprises efforts to improve the health of communities. Provides an overview for public health administration and practice, including organization, law, legislative relations, financing, workforce issues, leadership and surveillance.

**53003 Health Care Systems (3)**

Provides a systems approach to delivering health care and public health services in the United States. Includes an overview of public health, outpatient, inpatient, managed care, long term care and health services for special populations.

**53004 Public Health Policy, Law and Ethics (3)**

Provides a comprehensive review of health policymaking, public health law and ethical principles as applied to public health decision making.

**53005 Financial Management for Public Health Organizations (3)**

Provides an overview of financial management of public health organizations. Topics include planning for public health program budgeting, understanding costs and short and long term financing, accountability and control, reporting results and financial statement and financial conditions analysis.

**53006 Cost Benefit Analysis of Public Health Programs (3)**

Provides an overview of cost-benefit analysis as applied to the evaluation of public health programs. Students apply principles of cost benefit analysis and related cost utility analysis to case studies in the public health sector.

**53007 Public Health Programs: Planning, Implementation and Evaluation (3)**

An overview of developing, implementing and evaluating public health programs. Examines how public health programs can target different levels within a population, different determinants of health and strategies and interventions.

**72030 Grant Writing in Public Health (3)**

Students in this doctoral level course for Public Health learn the basics of grant writing for federal (NIH) and non-federal funding agencies with a particular emphasis on the components required of most grant proposal submitted for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing your literature review, background and significance, research design and methodology, developing a budget, and conducting research with

human subjects. Participants have the opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management.

### **73021 Health Care Finance (3)**

Covers the financial environment of health services in the US, including accounting principles, financial statement analysis, delivery models, management control processes of budgeting and capital project analysis, managerial accounting, program development and financial plan.

### **73022 Strategic Management of Health Care Organizations (3)**

Covers basic and advanced principles of strategic management of health care organizations including service area analysis, internal environment analysis, developing and evaluating strategic alternatives and quality indicators.

### **73023 Operations Management in Public Health (3)**

Provides a framework for health care operations management including the history of performance management and tools for applying operations management to public health care delivery systems.

### **73031 Public Health Policy Analysis (3)**

Provides a framework for conducting public health policy analysis. Applies concepts to case studies of health policies at the local, state and federal levels.

## **Graduate Information Architecture and Knowledge Management (IAKM)**

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## **and Knowledge Management (IAKM)**

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **60001/80001 Information Architecture and Knowledge Management in Context (3)**

Overview of the Information Architecture and Knowledge Management (IAKM) program and its concentrations. Basic skills and understandings in information literacy, organization of knowledge, information sources and searching. Information sciences, systems, and professionals in the information society.

### **60002/80002 Knowledge Organization Structures, Systems and Services (3)**

Introduction to various types of knowledge organization systems/services/structures (KOS) used in the networked environment. Understanding of the functional, philosophical, logical and linguistic fundamentals of KOS. Explanation of design options, features of KOS, and procedures to be used in the thesaurus, taxonomy and ontology construction.

### **60101/80101 Information Architecture (3)**

Introduction to the fundamental concepts and practices of information architecture (IA). Students develop practical skills for comparing, analyzing, critiquing and designing information architectures. Major topics include organization, navigation, labeling, search and other core IA concepts. Students learn to create blueprints, wireframes, process flows and other documents used to communicate an information architecture design.

### **60102/80102 Information and Visual Design (3)**

This course provides a cultural and technological context for

understanding the information design process. Topics include: basic design and typographic principles, aesthetics and information design, functional integration of visual and verbal elements, creation and use of information graphics, visualization of quantitative information, and visual navigation systems.

### **60103/80103 Researching the User Experience (3)**

Design research seeks to understand user needs, goals and tasks. Deals with research methods for human-centered design of information-rich artifacts and experiences. Covers interviews, surveys, diary studies and other methods applicable to the formative stages of the design process. Students learn to distill research findings into audience segments, user profiles, personas, scenarios and other documents that model user behavior.

### **60104/80104 Usability I (3)**

Provides a conceptual and practical overview of the processes and methods of usability testing, such as Think Aloud protocols, performance measurements and eyetracking analysis. Actual usability testing is performed, using quantitative and qualitative methods and employing current and emerging software tools to facilitate data collection and analysis.

### **60105/80105 Information Technologies (3)**

This course covers four aspects of information technology: essential technology concepts, the making of software, the social consequences of information technology and the role of non-programmers in technology design. Topics include operating systems, networks, search engines, markup languages, social software, dynamic languages, cloud computing, open source software, technology trends and the history of computing.

### **60110/80110 Content Management Systems (3)**

This course provides an overview of the concepts and practices of Content Management (CM) and

Content Management Systems (CMS), including understanding the parts and branches of a CMS, criteria for selecting a CMS, CMS configuration, and evaluating and implementing CMS software. Prerequisite: IAKM 60105.

**60111/80111 Online Branding (3)**

This course will focus on the strategies needed to advance brands through effective online experiences including Web sites, intranets, extranets and emerging web technologies. Students will also learn how to extend the brand through personalization, localization and other segmentation techniques.

**60112/80112 Advanced Information Architecture (3)**

Web site design from emerging directions, such as the separation of content from presentation, with e.g., the use of Cascading Style Sheets (CSS) for formatting web-based documents. The course includes considerations of making web sites compliant with federal regulations or other standards and validation for various markup guidelines. Prerequisites: IAKM 60101.

**60113/80113 User and Task Analysis (3)**

In order to design and develop effective user interfaces, task analysis process and theory are explored and applied via principles drawn from anthropology, ethnography, cognitive psychology, document and instruction systems design and market research. Practical techniques and methodologies are presented to improve interface design through all phases of the design process. Prerequisites: IAKM 60101 and 60103.

**60114/80114 Usability II (3)**

Provides students with an understanding of qualitative and quantitative research methods appropriate for conducting advanced studies of human interaction with computers. In addition, students learn how to evaluate, purchase, implement and operate equipment for usability labs in a manner consistent with research

methods. Prerequisites: IAKM 60104.

**60301/80301 Foundational Principles of Knowledge Management (3)**

This course covers an introduction to: historical roots for knowledge and knowledge management; theories/definitions of knowledge; theories, applications, tools, and practices of KM; Knowledge Management Life-Cycle Framework and Models; significant issues in KM – best practices, culture, economics, strategy, intellectual capital, sustainable innovation.

**60302/80302 Document and Records Management (3)**

This course provides principles, projects, and practices for organizational memory management that includes document, records, media, e-mail and enterprise content management with concerns for strategy, compliance, policy, security and workflow.

**60303/80303 Knowledge Management in Organizations (3)**

Implementation strategies for human resources, organizational processes and technology are explored. The organizational knowledge management activities of knowledge acquisition, generation, formalization, deployment, utilization, measurement and evaluation are presented.

**60304/80304 Research Methods for Knowledge Management (3)**

This course provides a broad overview of the use of qualitative methods in knowledge management, including an examination of the process of conducting qualitative research from conceptualization, design, data collection, articulation, and preliminary implementation. Critical thinking, analysis, and writing skills are emphasized.

**60310/80310 Intellectual Capital Management (3)**

This course encompasses the new knowledge-intensive economic units: human capital and social

capital intellectual assets, intellectual property, brands, and trademarks. A “lifecycle” approach for intellectual assets is described—creation, codification, valuation, protection, and leveraging of intellectual assets for competitive advantage. Prerequisites: IAKM 60301 and 60302.

**60311/80311 Business Process Management (3)**

Introduction to Business Process Management and Workflow Management. BPM will describe how organizational business processes, (internal, external, manual and automated), can be transformed and managed to increase efficiency, effectiveness and positively affect performance. Topics include the discovery, analysis, modeling and automation of workflow processes. Prerequisites: IAKM 60301 and 60302.

**60312/80312 Business Intelligence-Competitive Intelligence (3)**

An introduction to strategic intelligence consisting of competitive and business Intelligence. Strategic intelligence is an art, science, and craft. Businesses and governments require effective intelligence programs, processes, and tools to track businesses, competitors, markets and trends by acquiring, creating, managing, packaging, and disseminating intelligence knowledge. Prerequisites: IAKM 60301 and 60302

**60313/80313 Strategic Knowledge Management-Virtual Communities (3)**

Strategic Knowledge Management as it manifests in Virtual Communities: Communities-of-Practice (COPs) and Communities-of-Interest (COIs). Areas covered include: trust, facilitation of virtual communities, leadership and emotional intelligence in a virtual environment, social network analysis, and supporting learning communities with collaborative tools. Prerequisites: IAKM 60301 and 60302.



**60401/80401 Health Information Management (3)**

Covers the areas encompassing Health information management including the planning, selection, deployment, and management of electronic medical records (EMR), management decision-support and tracking systems (DSS), and other health information technologies (HIT).

**60402/80402 Legal Issues in Health Information Management (3)**

Introduction to the fundamentals of law for Health Informatics and Information Management. Elements of the course include general legal principles and healthcare; legal electronic medical records (EMR); Health Insurance Portability and Accountability Act (HIPAA) privacy rules and security rules; access, requests and disclosure of health information; required reporting and mandatory disclosure laws; risk management and quality improvement; compliance; workforce overview; related ethics and social issues.

**60403/80403 Health Information Systems (3)**

Introduction to information systems and their applications in healthcare used for managerial and clinical support. Study the fundamentals of information systems, including Electronic Medical Records (EMR), information security. Understand the role of standardized codes, vocabularies and terminologies used in health information systems. Analysis of management and enterprise systems, identify the key elements to manage information resources effectively and the trends affecting the development of health information systems and networks.

**60410/80410 Health Records Management (3)**

Conceptual foundations and practicum for health records management, including the planning, implementation and operation of electronic medical records (EMR); the management of EMR in management and enterprise systems; identifying, selecting and

evaluating EMR and health information systems, applications, and repositories; and issues of data quality, integrity, migration, and interoperability.

**60691/80691 Seminar in Information Architecture and Knowledge Management (1-3)**

Advanced research by students who are qualified to examine problems of certain special areas related to concentrations of study in information architecture, information usability or knowledge management.

**60692 Practicum in Information Architecture and Knowledge Management (2-3)**

Supervised work experience in concentration areas in IAKM program of a professional nature of not less than 100 clock hours with directed readings and preparations of a paper. Not repeatable. IP permissible. Prerequisite: special approval.

**60693/80693 Variable Title Workshop in Information Architecture and Knowledge Management (1-3)**

Intensive examination of special topics of interest to those involved in program concentrations. Maximum number of workshop credits for the M.S. in IAKM degree is 4 semester hours. S/U grading.

**60792 Internship in Information Architecture and Knowledge Management (1-3)**

Supervised work experience of an advanced professional nature that concentrates on developing skills in areas of concentration in the IAKM program. IP permissible. Prerequisite: special approval.

**61081 Capstone Experience (3)**

Provides students the opportunity to integrate their knowledge from all IAKM courses and experiences, interact with other IAKM students who may have different perspectives, and make connections with real-world problems through a guided, project-based, collaborative culminating experience.

Prerequisite: IAKM 60001 and 60002; and special approval.

**61095/81095 Selected Topics in Information Architecture and Knowledge Management (1-3)**

Offered irregularly as resources and/or opportunities permit. Topics could include current or emerging issues in information architecture, information usability or knowledge management. Specific topics will be announced in the Schedule of Classes.

**61096/81096 Individual Investigation in Information Architecture and Knowledge Management (1-3)**

Research or individual investigation for master's level/doctoral level students. Maximum credit per registration: 3 hours. Maximum credit towards master's degree: 6 hours. IP permissible. Prerequisite: special approval.

**61098 Master's Project (3)**

Provides a means for the application of the knowledge, research and competencies learned through study in the Information Architecture and Knowledge Management Program to the development of an information system, product, setting or service. Not repeatable. S/U grading; IP permissible. Prerequisite: IAKM 60001 and 60002; and special approval.

**61199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: IAKM 60001 and 60002.

**61299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: IAKM 60001 and 60002 and 61199.



## **Graduate Interior Design (ID)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **51093 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. S/U grading. Prerequisite: interior design (ID) major.

### **51095 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.

### **51096 Individual Investigation in Interior Design (1-3)**

Independent study of Interior Design and related topics under the guidance of a faculty member. IP permissible. Prerequisite: interior design (ID) major.

### **54512 Historic Furnishing Textiles (2)**

A course designed to acclimate the student to historic textiles created primarily for use in interior architecture. Focus is on aesthetics, design and construction. A comprehensive adaptive reuse or restoration project is required. Prerequisite: ID 44525 and 44534.

### **54524 Anglo-American Interiors (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.

### **54534 History of Interiors to 1600 (4)**

A chronological study of housing and furnishings from civilization to the 15th century. Prerequisite: ID 34504 and; ARTH 22006 and 22007 or ARCH 20001 and 20002; and special approval.

### **54535 History of Interiors 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 54534.

## **Graduate Instructional Technology (ITEC)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

### **50093/70093 Variable Title Workshop in Educational Media (1-4)**

S/U grading. Prerequisite: special approval.

### **57400 Selection and Utilization of Educational Media (3)**

Discusses principles and techniques in the selection and utilization of media for instructional purposes.

### **57402 Organization and Administration of Educational Media Programs and Centers (3)**

Examines the planning, organizing, administering and evaluating of educational media programs and centers.

### **57411/77411 Designing Visuals for Instruction (3)**

Investigation of historical, cultural, aesthetic dimensions of instructional visual design. Focus on design of instructional visuals across media, including print, video, computer-based technology. Presentations, lab activities.

### **57413 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, export productions to tape/CD.

### **57427 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.

### **57430 Computer Applications in Education (3)**

Preparation for use of computers effectively in variety of educational settings. Students should have some expertise with computers. Focus on advanced applications in education. Macintosh and Windows.

**60199 Thesis I (2-6)**

Master of Arts students must register for at least one semester of Thesis I under the supervision of an advisor. S/U grading; IP permissible.

**60299 Thesis II (2)**

If 6 credits of Thesis I have been completed, M.A. students must continue to register each semester under Thesis II until all degree requirements are met. S/U grading; IP permissible.

**67403/77403 Instructional Design (3)**

Enables students to design and develop instructional systems and materials using a systematic and research- and theory-based instructional design model.

**67410/77410 Simulation-Games in Education (3)**

Provides students with opportunities to explore simulation and games as a strategy for learning. Experiences in both group role-playing simulations and computer simulations will be included.

**67412 Instructional Technology in Secondary Schools (1)**

This course provides activities appropriate to develop the skills necessary for using educational technology in the secondary school setting. Students will develop an understanding of how technology is used to solve a variety of problems in secondary school teaching.

**67415/77415 Utilizing Television in the Classroom (2)**

Explores the utilization of instructional and commercial television in the classroom.

**67417/77417 Advanced Instructional Design (3)**

Compares selected models of instructional design and discusses their advantages and disadvantages

for designing instruction. Prerequisite: ITEC 57403.

**67420/77420 Researching Current Issues in Instructional Technology (3)**

Exploration of significant current issues in the field of instructional technology, including latest research findings, use of newest technologies, instructional design issues, present state of the field and future directions.

**67425/77425 Managing Technological Change (3)**

Analysis and evaluation of change process are explored, particularly as they relate to use of instructional technology. Management role for facilitating planned change as studied through communication and management models.

**67426/77426 Networking Basics for Educators (3)**

Provides an overview of networking, including client hardware and software typically found in school settings. Topics include networking design, protocols, software and hardware, wireless networking, security and acceptable use, management strategies, desktop client and server configurations, and professional issues for network administrators. Intended for those seeking licensure as K-12 computer/technology coordinators.

**67434/77434 Emerging Technologies (3)**

Focus on theoretical foundations, design and development of instructional delivery systems employing leading-edge or emergent technologies. Specific technologies include multimedia, interactive Web-based instruction. Presentations, lab.

**67435/77435 Virtual Reality (3)**

Virtual reality provides promise as a tool for educators. Students will learn to create and evaluate instructional applications. Activities will include actual production of virtual worlds as well as virtual experiences on the Internet.

**67436/77436 Distance Education (3)**

This course explores various approaches to delivering instruction to distant sites and examines a variety of critical issues, such as planning, choice of technology, cost, teaching strategies, evaluation, etc.

**67437/77437 Web Development for Educators (3)**

Provides an overview of basic website development and management in educational settings. Topics include HTML, cascading style sheets, dynamic webpages and database integration.

**67438/77438 Instructional Applications of the Internet (3)**

Provides knowledge and skills needed to use the Internet effectively in instruction at all levels. Two major concentrations are computer-mediated communications and instructional Web site development. Prerequisite: ITEC 57403 and 57430.

**67439 Portfolio Review (1)**

Students modify projects and products developed in earlier courses to ensure highest quality. Students present results to faculty to show expertise in instructional design, virtual design, multimedia and World Wide Web development. S/U grading; IP permissible. Prerequisite: special approval.

**67442/67442 Designing Online Courses (3)**

Online learning and teaching present new challenges for

designing high quality instructional experiences for students. This course enables students to design and develop effective online educational materials, interactions and discourses to increase learning in online settings. Students design and develop online materials. Course is presented online. Prerequisite: ITEC 6/77438.

**67444/67444 Teaching Online Courses (3)**

Course explores using pedagogical approaches appropriate to online learning, including facilitating synchronous and asynchronous discussions, facilitating embedded assessment, enhancing online interactivity, collaboration and community and incorporating self-directed learning. Students discuss, analyze and use these strategies in online teaching and learning. Course is presented online. Prerequisite: ITEC 6/77438.

**67449/77449 Research in Online Learning (3)**

Course reviews current research issues in online teaching and learning and explores potential new areas of research. Students engage in guided inquiry to identify, understand, apply and critique current research in online learning and to discover and construct new areas. Students participate in a constructive online learning environment. Course is presented online. Prerequisite: ITEC 6/77442 or ITEC 6/77444.

**67491/77491 Seminar: Educational Media (1-4)**

Variable topic seminar for advanced study of specialized areas and topics. Normally designed around research and theory applied to practice.

**67492/77492 Advanced Practicum and Internship in Instructional Technology (1-10)\***

Supervised program requiring application of theory and practice in instructional technology in either school or nonschool settings. Planned with and directed by a graduate faculty member. S/U grading; IP permissible.

**67495/77495 Special Topics in Educational Media (1-5)**

Specialized offering in response to emerging or selected program needs in instructional technology.

**67496/77496 Individual Investigation in Instructional Technology (1-10)**

Directed independent reading and/or research of special interest or need in student's program. Planned with and directed by a graduate faculty member. S/U grading; IP permissible.

**67498/77498 Independent Research in Instructional Technology (1-10)**

Students pursue an individualized research project on aspecialized topic with approval and under direction of instructor. S/U grading; IP permissible.

**77450 Learning with Instructional Technologies (3)**

Accompanies the Educational Psychology doctoral seminar EPSY 77450: Psychological Principles of Education. Doctoral students are required to take both courses simultaneously. In this ITEC course, students address how technologies can most effectively be used to enhance instruction, based upon current findings about the learning process. Students are also required to develop a research project, which utilizes technology to test theories about learning and instruction. Corequisite: EPSY 77450.

**Graduate Japanese (JAPN)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**55301 Business Japanese (3)**

Development of the four language skills in a manner specific to Japanese corporate settings. Introduces Japanese business practice and business etiquette.

**65001 Graduate Research and Writing in Japanese (3)**

Individual instruction and assistance with problems encountered in academic research and writing in Japanese. Required of all graduate students in their first fall semester.

**65010 The Practice of Japanese Translation (2)**

Students apply linguistic and communication science concepts to case studies of language meditation. Corequisite: TRST 60010.

**65091 Seminar (3)**

Topic announced in Schedule of Classes; may be repeated when content varies.

**65098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned applied toward degree requirements if department approves; repeat registration permitted. IP permissible. Prerequisite: departmental approval.

**65240 Literary and Cultural Translation (3)**

Translation of documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Japanese will also be emphasized.

**65250 Commercial, Legal and Diplomatic Translation (3)**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010.

**65251 Scientific, Technical and Medical Translation (3)**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010.

**65979 Case Study in Translation (3)**

Students will be responsible for a major translation and a terminology glossary, as well as a critical analysis of the source text, the problems encountered during the translation process and the strategies used to solve them. S/U grading. Prerequisite: special approval.

**Graduate Journalism and Mass Communication (JMC)**

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Graduate Journalism and Mass Communication (JMC)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**50001 Fundamentals of Media Messages (3)**

Working with messages for print, broadcast, electronic and new media outlets. Course may not be taken for credit nor applied toward any requirements by a JMC major. Prerequisite: special approval.

**50002 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. Hours do not count toward degree. Prerequisite: special approval. Special course fee: \$30 per semester (subject to change).

**50003 Editing for Mass Media (3)**

Theory and practice in copy editing, headline writing, picture selection and online editing, newspaper design and layout, special sections and management problems. Hours do not count toward degree. Prerequisite: JMC 50002. Special course fee: \$30 per semester (subject to change).

**50004 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 50002. Special course fee: \$30 per semester (subject to change).

**50005 Feature Writing (3)**

Researching, writing and placement of feature stories in publications. Prerequisite: JMC 50002. Special course fee: \$30 per semester (subject to change).

**50006 Law of Mass Communication (3)**

Libel and slander; privacy, copyright, obscenity; regulation of advertising and broadcasting; antitrust law and mass media; legal problems reporting courts, legislatures; taxation, licensing.

**50007 Reviewing the Arts (2)**

Reviewing and criticism of performing, visual and literary arts. Emphasis on books, film, TV and theatre. Prerequisite: special approval.

**50012 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: JMC 50002. Special course fee: \$30 per semester (subject to change).

**50013 Television Sports Production (3)**

A comprehensive study of the production of live action television sports coverage. Prerequisite: Journalism and Mass Communication (JMC) major.

**50015 Media Management (3)**

A study of administrative problems, methods, procedures in the management of media corporations.

**50016 Law for Advertising and Public Relations (3)**

Regulation of advertising and public relations; first amendment; libel and privacy; legal problems of new media; research in persuasive media. Prerequisite: special approval.

**50020 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. Prerequisite: Journalism and Mass Communication (JMC) major.

**50023 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. Prerequisite: Journalism and Mass Communication (JMC) major.

**50027 Managing Media Diversity (3)**

Aspects of diversity and how it changes our environment with emphasis on the field of mass communication.

**50030 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. Prerequisite: Journalism and Mass Communication (JMC) major.

**50035 Television Graphics (3)**  
Basic design, theory and technique in creating and preparing TV and video graphics.

**50036 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. Prerequisite: Journalism and Mass Communication (JMC) major.

**50037 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. Prerequisite: Special approval.

**50193 Variable Title Workshop in Journalism and Mass Communication (1-3)**  
Intensive study of professional issues and problems in various areas of mass communication, utilizing the expertise of faculty and professionals in the field. S/U grading. Prerequisite: special approval.

**51003 Advertising Accounting Management (3)**  
An introduction to advertising account management, its functions and the skills needed for this profession. Prerequisite: JMC 60007.

**53035 Advanced Television News Producing (3)**  
Advanced understanding of how to produce news content for broadcast and the web. Prerequisite: special approval.

**53036 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.

**53042 Video Studio Production (3)**  
Study of producing and direction of various types of television studio programs. Lecture 2 hours, laboratory 2 hours weekly. Prerequisite: special approval.

**54045 Promotions for Electronic Media (3)**  
Fundamental and latest trends in broadcast and cable promotion. Prerequisite: Journalism and Mass Communication (JMC) major.

**54050 Audio for Video (3)**  
Understanding of the sonic aspects of visual productions including video studio, video field and online applications. Prerequisite: Journalism and Mass Communication (JMC) major.

**55051 Reporting Broadcast News (3)**  
Gathering and preparing broadcast news, with emphasis on unique style and presentation methods of broadcast media. Use of both audio and video recorders and editing equipment. Prerequisite: JMC 50002. Special fee: \$10 per semester.

**56000 Newspaper Design (3)**  
Design of newspapers from small inside pages to elaborate feature pages. News judgment. Basic information graphics and photo editing. Prerequisite: JMC 50003. Special course fee: \$30 per semester (subject to change).

**56001 Information Graphics (3)**  
(Cross-listed with VCD 53007)  
Introduction to shapes, color, type and combinations of these for computer-designed news graphics: maps, charts, graphs and diagrams. Prerequisite: special approval.

**56003 Producing Television News (3)**  
Knowledge of the theory and practice of producing content for TV news and public affairs programs. Emphasis is placed on understanding news philosophies, storytelling, story selection and rundown placement. Prerequisite: JMC 55051 and Journalism and Mass Communication (JMC) major.

**56006 Editorial Writing (3)**  
Structure and purpose of editorial and column writing; study of editorial page; practice in writing editorials. Prerequisite: JMC 50002.

**56007 Reporting In Depth (3)**  
Techniques involved in researching, interviewing and writing in-depth news articles and analyses. Prerequisite: JMC 50002.

**56009 Reporting Public Affairs (4)**  
Instruction and practice in reporting all areas of public affairs, including government and the courts. Use of precision journalism techniques. Prerequisite: JMC 50002. Special course fee: \$40 per semester (subject to change).

**56016 Magazine Publishing (3)**  
Overview of magazine publishing, editorial, advertising, circulation and production. Analysis of magazines. Prerequisite: Special approval. Special course fee: \$30 per semester (subject to change).

**56020 Magazine Design (3)**  
Marriage of words and visuals for designing magazine layouts and covers in desktop publishing. Prerequisite: JMC 50002, 50003 and 56016. Special course fee: \$30 per semester (subject to change).

**56021 Magazine Writing and Editing (3)**  
Research, interviewing, writing and marketing of major magazine articles. Also editing techniques for magazines. Prerequisite: JMC 50002 and 50003. Special course fee: \$30 per semester (subject to change).

**56052 Advanced Broadcast News Practices (3)**

Study of investigative news stories, newsroom operations, editing and producing broadcast news programs. Advanced projects in broadcast news. Prerequisite: JMC 55051 or 56054. Special course fee: \$45 per semester (subject to change).

**56054 Broadcast Documentary (3)**

Development of the documentary form for radio/TV; analysis, production of radio/TV documentary; utilization of audio/video recording/editing. Prerequisite: JMC 55051. Special course fee: \$45 per semester (subject to change).

**57003 Teaching High School Journalism (3)**

Methods and materials for teaching journalism in high school. Prerequisite: Special approval. Special course fee: \$30 per semester (subject to change).

**57004 Desktop Publishing for High School Journalism Teachers (1)**

Basics of InDesign desktop publishing program as it relates to high school newspapers and magazines.

**58001 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 and media relations strategies along with the uses and limitations of mass media in public relations practice. Prerequisite: special approval. Special course fee of \$30 (subject to change).

**58002 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". Prerequisite:

special approval. Special course fee of \$30 (subject to change).

**58003 Public Relations: Online Tactics (3)**

Explores fundamentals of Web site planning and design and provides hands-on skills development using the full range of cybermedia techniques. Includes emphasis on writing for online audiences. Prerequisite: special approval. Special course fee of \$30 (subject to change).

**58006 Public Relations Publications (3)**

Planning, writing and design of organizational publications, including newsletters, brochures, fliers, and promotional mailers. Course emphasizes basic graphic design principles, use of professional desktop publishing software along with basic printing and production processes. Prerequisite: special approval. Special course fee of \$30 (subject to change).

**59021 Corporate Video (3)**

The use of video in the legal, medical and corporate environments. Emphasis is placed on the structure and function of the medium within each environment. Prerequisite: special approval. Special course fee: \$60 per semester (subject to change).

**60000 Introduction to Graduate Studies in Journalism and Mass Communication (1)**

An introductory survey of the various areas of professional and scholarly concentrations in the fields of journalism and mass communication. Consideration of the relationship between professional practice and scholarly activity in those fields. S/U grading; IP permissible.

**60001/80001 Theory of Mass Communication (3)**

Introduction to theory of mass communication, with emphasis on the process and effects of mass communication.

**60002 Legal Problems in Mass Communications (3)**

Case studies related to the First Amendment, libel, invasion of privacy, regulation of broadcasting and new media, copyright and access to information. Course focus will be the theories underlying these issues, as well as practical application of the legal concepts. Prerequisite: special approval.

**60003 Ethics of Mass Communications (3)**

Study of ethical problems of mass media in society; analysis of media policies; performance evaluation. Prerequisite: Journalism and Mass Communication (JMC) major.

**60004/80004 Cybermedia Law (3)**

Investigates how the law affects those who gather information and publish online, including issues relating to blogging, web site hosting, positing and online journalism, along with a basic ability to apply that knowledge in specific situations. Focus is on both existing law and developing public policy.

**60007 Research Methods in Mass Communication (3)**

Introduction to methods of social science research that are applicable to study of mass communication. Prerequisite: special approval.

**60009 Social Role of the Mass Media (3)**

Application of professional, theoretical, historical, economic and political perspectives to examine the role of mass media in society both in terms of structure and function. Prerequisite: Journalism and Mass Communication (JMC) major. Special fee: \$18 per semester.

**60010/80010 Qualitative Research in Journalism and Mass Communication: Data Collection (3)**

Designed to develop skills in qualitative data collection in journalism and mass communication with primary focus on human subjects and textual data.

**60015 Advanced Media Management (3)**

Theory and practice of management operations and problem solving techniques specifically related to media companies. Emphasis will be using case studies from the media. Prerequisite: JMC 50015.

**60021 Advanced Magazine Writing (3)**

Course builds on content presented in JMC 56016 and JMC 50005. Purpose is to refine and hone writing skills for nonfiction magazine stories in print and online. Prerequisite: JMC 50005 and 56016.

**60096 Individual Investigation in Mass Communication (1-3)**

Individual investigation of selected area or problem approved by graduate faculty. Repeatable for maximum of 6 hours. IP permissible. Prerequisite: special approval.

**60098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Repeat registration permitted. Maximum of 3 hours may be applied to degree if school approves. Prerequisite: special approval.

**60195 Special Topics Seminar (1-3)**

Study of important topics in mass communication. Offered irregularly in response to existing interests and opportunities. Prerequisite: special approval.

**60196 Readings in Mass Communications (1-3)**

Student pursues course of readings approved by instructor to cover subject specialty student cannot obtain from formal course offerings. IP permissible. Prerequisite: special approval.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over

several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

**60295 Special Topics in Computer Lab (1-3)**

Selected topics of special interest not covered in depth in existing courses; offered as resources permit. Prerequisite: special approval. Special fee: \$10 per semester hour.

**60296 Advanced Readings in Journalism and Mass Communication (3)**

Consolidation and synthesis of learning experiences in the graduate program. Application of graduate study to future professional careers. Updates on latest developments in the fields of JMC and their impact on the future of academic study and professional practice in the discipline. S/U grading; IP permissible. Prerequisite: special approval.

**60299 Thesis II (2)**

Thesis student must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: JMC 60199.

**60396 Master's Professional Project (3)**

Completion and defense of a substantial professional project in one of the fields of journalism and mass communication. S/U grading; IP permissible. Prerequisite: special approval.

**64072 Administrative Problems in Radio and Television (3)**

Advanced study of management topics in radio, television, cable and corporate television settings. Case studies and individual projects. Prerequisite: JMC 50015.

**65660 Political Communication (3)**

(Cross-listed with COMM 65660) An examination of political communication theory and research. Content includes approaches to political communication, role of the media in politics and analysis of political messages.

**66005 Professional News Editing (3)**

Professionally oriented work at the advanced level in selecting, editing and displaying stories and photographs in print journalism; role and responsibility of editors. Prerequisite: JMC 50003.

**66010 Specialized Reporting (3)**

News gathering techniques in specialty areas such as politics, labor, medicine, business and technology; techniques of team reporting. Prerequisite: JMC 55015 and 56009.

**66015 Role of the Editor (3)**

The role of the supervising editor in a news operation. How to plan coverage, generate story ideas, work with reporters and other editors and deal with community issues. Prerequisite: JMC 50002 and 50003. Special fee: \$15 per semester.

**66020 Precision Journalism (3)**

Professional application of social science research methods and statistics to the news industry. Writing stories on public opinion polls, public records and field experiments. Prerequisite: JMC 50002.

**66092 Internship in Journalism and Mass Communication (1-3)**

Experience in a department or company involving supervised professional responsibilities in journalism and mass communication. Minimum of 150 hours of work for each hour of credit. S/U grading; IP permissible. Prerequisite: special approval.

**67094 College Teaching of Journalism (1-3)**

Staff training and experience in college teaching. Only 3 hours may be applied toward master's degree. Prerequisite: special approval.

**68000 Public Relations Theory and Process (3)**

Introduces students to the profession of public relations by exploring both the theories and the processes employed by PR practitioners.



Course also explores the history and social role of public relations as well as ethics and social responsibility. Prerequisite: special approval.

### **68001 Public Relations Management (3)**

Perspectives, skills needed to manage an organization's PR function, particularly strategic planning, implementation and evaluation. Emphasis on managerial aspects of negotiating organizational relationships with public. Prerequisite: JMC 68000.

## **Graduate Justice Studies (JUS)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

### **55093 Variable Title Workshop in Justice Studies (1-3)**

Classroom presentations and field study focused on professional and disciplinary concerns. Specific content varies with workshop topic. S/U grading. Prerequisite: special approval.

### **56701 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.

### **56705 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.

### **56708 Treatment Methods (3)**

Various methods of treatment are applied to the corrections field. Focus is on specific techniques in community and institutional correctional settings. Direct observation utilized when possible.

### **57095 Special Topics in Justice Studies (1-3)**

Intensive analysis of issues significant and current in the field which are not covered in regular courses. Prerequisite: special approval.

### **66199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

### **66299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: JUS 66199.

### **66761 Law, Justice and Society (3)**

(Cross-listed with POL 70707) Course reviews the origins, structure and functioning of law in relation to social context and process. Topics to be covered include theories of law and society, law as a form of social control, and the use of law and legal institutions to address societal problems.

### **66762 Proseminar in Issues in Contemporary Justice (3)**

(Cross-listed with POL 60701 and POL 70701) An analysis of current issues in the legislative, policing, judicial and correctional components of the justice system.

### **66763 Theories of Crime and Delinquency (3)**

(Cross-listed with POL 70704) Examination of major theoretical concepts in criminology that have been utilized to explain criminal behavior and juvenile delinquency. Includes discussion of social/policy implications.

### **66764 Juvenile Justice (3)**

An analysis of the issues and current research related to juvenile

delinquency and the juvenile justice process.

### **66765 Criminal Violence (3)**

Course explores the many dimensions of criminal violence. Topics to be covered include patterns and trends, types of violence, the prediction and etiology of violent behavior and response/solutions to violence. Emphasis will be placed on the U.S.

### **66766 Institutional Corrections (3)**

Analysis of the correctional institution as a social system: formal structure and informal dynamics. Basic operational problems and special programs within the institutional setting are considered.

### **66767 Justice Administration (3)**

Focuses on theory and practice in justice administration. Current organizational theories are considered in relation to the administration and management of criminal justice agencies. Prerequisite: special approval.

### **66768 Research Methods in Justice Studies (3)**

Methodological research designs and techniques utilized in criminal justice. Focuses on specific skills needed to complete basic and evaluative research in criminal justice. Prerequisite: special approval.

### **66769 Justice Research Applications (3)**

Application of research methods within various content areas of justice studies, individualized research assignments included. IP permissible. Prerequisite: JUS 66768.

### **66770 Justice Institutions (3)**

(Cross-listed with POL 70702) This course introduces students to various institutions related to the U.S. criminal justice system. Students examine techniques for conducting institutional analysis and apply these techniques to law enforcement, judicial and correctional institutions.

**66771 Legal Aspects of Justice Administration (3)**

An examination of the legal rights of the offenders and victims, and constraints of law and justice practices and administration.

**66772 Victimology (3)**

(Cross-listed with POL 70706)

Patterns of victim-offender relationship. Role of victims in the justice studies process. Problems of adjustment to victimization and compensating the victim.

**66773 Contemporary Policing (3)**

The functions and dynamics of police work in contemporary society. Current and emerging functions are emphasized.

**66774 Comparative Justice Institutions and Policy (3)**

(Cross-listed with POL 70705)

Cross-cultural analysis of crime and the justice institutions/justice policies of various countries. The developmental backgrounds, structure and functioning of the systems are compared. Important issues in international justice are considered.

**66775 Research Methods in Justice Studies II (3)**

Advanced topics in multivariate statistical analysis with applications in justice studies. IP permissible. Prerequisite: JUS 66768.

**66776 Qualitative Methods in Justice Studies (3)**

Examination of qualitative methods used in justice research, including ethnography, content analysis, historical analysis and focus groups. Use of computers in qualitative analysis also included. Prerequisite: JUS 66768.

**66792 Internship in Justice Studies (4)**

Observation and work experience under direction of a faculty member in a justice institution. S/U grading; IP permissible. Prerequisite: special approval.

**66795 Special Topics (1-3)**

Offered irregularly, this course provides opportunity to study special issues, developments and

programs in justice studies. Topics vary. Prerequisite: special approval.

**66796 Individual Investigation (1-3)**

Intensive study of a subject that the student cannot normally pursue in a regularly scheduled course.

Individual investigation topic must be approved by instructor and graduate coordinator. Prerequisite: special approval.

**66798 Research (1-6)**

Pursuit of research interests. Repeat registration permitted. IP permissible. Prerequisite: special approval.

**Graduate Kent Blossom Arts (KBA)**

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Graduate Kent Blossom Arts (KBA)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**54080 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.

**55080 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.

**Graduate Kent Blossom Music (KBM)**

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Graduate Kent Blossom Music (KBM)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50026/70026 Accompanying Projects (2-4)**

Rotating assignment among responsibilities in solo vocal recital preparation, opera coaching, choral rehearsals, chamber music preparation, master classes and voice lessons. Individual responsibilities change weekly. Repeat registration permitted. S/U grading. Prerequisite: Audition.

**50031/70031 Chamber Music (1-4)**

Rehearsal, coaching and performance of representative chamber repertoire from the Baroque era through the 20th century. Woodwinds, brass, strings, piano, voice. Intensive daily rehearsal and coaching. Repeat registration permitted. S/U grading. Prerequisite: Audition.

**50032/70032 Orchestral Repertoire and Technique (1)**

Study and performance of standard orchestral repertoire and common audition requirements. Technical and interpretive approaches relating specifically to orchestral performance. All instrumental students except pianists. Repeat registration permitted. S/U grading. Prerequisite: Audition.

**50093/70093 Variable Title Workshop in Music (1-4)**

Offered for specific professional needs. Emphasis on performance and pedagogical skills. S/U grading. Prerequisite: special approval.

**60042/70042 Applied Music—Instrumental (1-2)**

Private studio instruction in orchestral instruments. S/U grading. Repeat registration permitted. Prerequisite: Audition.

## **Graduate Kent Blossom Theatre (KBT)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **60199 M.F.A. Thesis Project (3)**

Students must register for course during the semester of their MFA thesis project. Not repeatable. Prerequisite: special approval of adviser.

### **60992 Professional Theatre Internship I (1 or 6)**

(Cross-listed with THEA 60992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions, and performance in a professional theatre company. S/U grading; IP permissible. Repeatable once.

### **61096 Individual Investigation: Theatre and Drama (1-4)**

(Cross-listed with THEA 61096) Independent study of an area or problem approved by division coordinator, in consultation with project director. Repeatable. IP permissible. Prerequisite: special approval

### **61992 Professional Theatre Internship II (1 or 6)**

(Cross-listed with THEA 61096) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions, and performance in a professional theatre company. S/U grading; IP permissible.

### **62092 Practicum:**

#### **Design/Technology (3)**

Practical experience for the graduate student in theatre design and

technology under faculty supervision. S/U grading: IP permissible.

### **62192 Practicum:**

#### **Performance (3)**

(Cross-listed with THEA 62192) Practical experience for the graduate student in theatre performance under the faculty supervision. S/U grading; IP permissible. Repeatable.

### **62992/72992 Theatre Production Internship (1-6)**

(Cross-listed with THEA 62992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions, and performance in a theatre company. S/U grading; IP permissible. Repeatable for a maximum of 12 hours. Prerequisite: special approval.

## **Graduate Latin (LAT)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Latin (LAT)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

### **50393 Variable Title Workshop in Latin (1-6)**

Workshops individually designed to provide instruction and training in Latin studies. S/U grading. Prerequisite: special approval.

### **56095 Selected Topics in Latin (3)**

Topic to be announced in semester Schedule of Classes. May be repeated to maximum of 15 hours. Prerequisite: LAT 36180 and 37171.

### **56352 Elegiac Poets (3)**

Selections from Tibullus, Propertius and Ovid.

### **56374 Juvenal's Satires and Martial's Epigrams (3)**

General consideration of Roman satire.

### **56375 Lucretius (3)**

*De Rerum Natura.*

### **66199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in single semester, distributed over several semesters if desired. S/U grading; IP permissible.

### **66211 Advanced Prose Composition (3)**

More thorough training in composition where need is established.

### **66299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: LAT 66199.

### **66351 Latin Comedy (3)**

Characteristics of Latin comedy; readings from Plautus and Terence.

### **66372 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. Study of Greek and Latin precedents in the genre.

### **66373 Advanced Prose Authors (3)**

A consideration of selected major prose writers such as Pliny the Younger, Livy, Tacitus, Suetonius.

### **66391 Seminar in Classical Literature (2 or 3)**

Topics to be announced. IP permissible.

### **66398 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned applied toward degree requirements if department approves. Repeat registration

permitted. IP permissible.  
Prerequisite: special approval.

## **Graduate Library and Information Science (LIS)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **50693 Variable Title Workshop- Library and Information Science (1-3)**

Maximum workshop credit accepted for M.L.I.S degree is 4 semester hours. Intensive examination of special topics of interest to practicing librarians. May be repeated. S/U grading.

### **60001/80001 Access to Information (3)**

Examination of information access issues. Topics include discussion of information needs, use of information sources, and information access services. This course is not open to students in non-degree programs.

### **60002/80002 Organization of Information (3)**

Introduction to the theory and practice of organizing information in various information environments. Familiarity with principles, standards, tools and current systems relating to organization of information. This course is not open to students in non-degree programs.

### **60003/80003 Information Technology for Library and Information Professionals (3)**

Provides basic information technology concepts and skills necessary for library and information professionals. Topics include computer hardware and software basics; operating systems; file management; software installation and configuration; basic PC applications; information systems concepts, development, and evaluation; search skills; Internet and web concepts, tools, and applications; emerging technologies and tools. This course is not open to students in non-degree programs.

### **60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.  
Prerequisite: special approval.

### **60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.  
Prerequisite: LIS 60199.

### **60600/80600 Foundations of Library and Information Science (3)**

Social, philosophical and historical foundations; information technology and the library; types of libraries and services, national and internationally; professional issues, research, literature, associations, and education. This course is not open to students in non-degree programs.

### **60601/80601 Information Source and Reference Services (3)**

Introduction to use and evaluation of basic sources of reference information, computerized and non-computerized; reference interview and question-negotiation

techniques; administration of reference and information services.  
Prerequisite: LIS 60001.

### **60602/80602 Cataloging and Classification I (3)**

Principles of cataloging with emphasis on Dewey Decimal and Library of Congress Classification systems, Library of Congress subject headings, online cataloging and administration. Prerequisite: LIS 60002. Special fee: \$20 per semester (subject to change).

### **60603/80603 Cataloging and Classification II (3)**

Theory and practice of providing description and access to library materials. Examples and assignments will be taken from all types of library materials, print and nonprint. Prerequisite: LIS 60002 and 60602. Special fee: \$20 per semester (subject to change).

### **60604/80604 Research Methods for Libraries and Information Centers (3)**

Focuses on survey and qualitative research methods applicable to libraries and information centers. Explores research techniques, data analysis, proposal development, and ethical issues.

### **60607/80607 School Library Media Center (3)**

Management of school library media centers K-12. Prerequisite: special approval.

### **60608/80608 The Public Library (3)**

Analysis of the historical, sociopolitical, technological, fiscal and organizational factors affecting American public librarianship. Includes evaluation, planning, networking, funding, automation, buildings and censorship.  
Prerequisite: LIS 60600.

**60609/80609 Marketing the Library (3)**

Introduction to the theory and practice of marketing the library. Topics include the evaluation of customer needs, the marketing mix, merchandising, public relations, relationship marketing, and the design and development of a marketing plan for libraries.

**60610/80610 Management of Libraries and Information Centers (3)**

Identifies and discusses management functions of libraries and related organizations; includes planning and decision-making, human resource management, measurement and evaluation, fiscal and project management. This course is not open to students in non-degree programs.

**60611/80611 Government Information Sources and Services (3)**

Library treatment of U.S. government publications, with brief attention to municipal and state publications, and major documents of Great Britain, Canada and the United Nations. Will not include materials covered in LIS 60601. Prerequisite: LIS 60001.

**60612/80612 Library Materials and Services for Adults (3)**

Recent investigations of group and individual reading habits; advisory services in various types of libraries; library programs for adult education; projection of library materials toward community.

**60613/80613 Information Needs, Seeking and Use (3)**

Surveys theories related to people's interactions with information. The theories covered include information context and situation, information needs, information seeking, exploration of information sources, communication and

collaboration in the information search process, information use, and other interactions among people, information, and information systems. Prerequisite: LIS 60001.

**60614/80614 Selection and Acquisition of Library Materials (3)**

Factors affecting selection in public, academic, school and special libraries (reading habits, censorship, publishing trends); community analysis, selection policies and process; selection sources; acquisitions.

**60615/80615 The Academic Library (3)**

Governance, administration and services of libraries in institutions of postsecondary education. Prerequisite: LIS 60600.

**60616/80616 The Special Library (3)**

The formation of special libraries. Libraries in special subject fields and in organizations: corporations, government agencies, hospitals, etc. Internal organization and administration, collection development and services. Prerequisite: LIS 60600.

**60619/80619 Legal Information Sources and Services (3)**

(Cross-listed with AS 53001/73001) 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

**60620/80620 Health Information Resources (3)**

Identifies print and electronic sources of health information with emphasis on electronic sources. Medical patient and consumer health information is presented. This course is designed for the

health educator, librarian, nurse or other health care professional.

**60621/80621 Social Sciences Information Sources and Services (3)**

Content, bibliographic structure and communication patterns in the social sciences with emphasis on information sources and services in sociology, history, education, political science, anthropology, related disciplines. Prerequisite: LIS 60001.

**60622/80622 Science/Technology Information Sources and Services (3)**

Content, bibliographic structure and communication patterns in the sciences with emphasis on pure and applied fields, e.g., mathematics, biology, physics. Prerequisite: LIS 60001.

**60623/80623 Business/Finance Information Sources and Services (3)**

Historical development; applications to current business, labor, governmental, educational and sociological information needs; interpretation to executives and others; printed sources and databases. Prerequisite: LIS 60001.

**60624/80624 Cataloging for School Library Media Centers (3)**

Organization and administration of print and nonprint materials in school library media centers. Application of appropriate descriptive cataloging rules, subject headings and classification policies for children's, young adult and educational materials K-12. Prerequisite: special approval.

**60625/80625 Library Materials and Services for Very Young Children (3)**

Selection and utilization of materials in relation to needs, abilities and interests of the very young child.

**60626/80626 Library Services to Young Adults (3)**

Selection and utilization of books and materials in relation to needs, abilities and interests of young adults.

**60628/80628 Humanities Information Sources and Services (3)**

Philosophy, literature, fine and performing arts. Prerequisite: LIS 60001.

**60629/80629 Library Materials and Services for School-Age Children (3)**

Selection and utilization of materials in relation to needs, abilities and interests of school-age children.

**60630/80630 Reference Sources and Services for Youth (3)**

Organization and administration of information sources and information services for children and young adults (K-12). Evaluation, selection and utilization of print and electronic sources.

**60631/80631 Introduction to Digital Preservation (3)**

Approaches for preserving and maintaining access to digitized and born-digital text, images, data and audiovisual information. Topics include longevity of digital media, selection for preservation, formats and strategies for preservation, preservation metadata, integrity and authenticity of digital materials, establishment and certification of trustworthy digital repositories, risk management, and policy development. Prerequisite: LIS 60002.

**60632/80632 Technologies for Digital Preservation and Web Archiving (3)**

Essential technologies for building and maintaining robust, trusted digital repositories. Emphasis is on providing orientation to technologies sufficient to allow students to work with network administrators, programmers, and other personnel involved in providing technical support to develop digital repositories for preservation and archiving functions. Prerequisites: LIS 60631 or 60638.

**60633/80634 Digital Curation (3)**

Management and preservation of digital objects and records throughout their life cycle.

Emphasizes the use and reuse of scholarly data, business and government records, cultural heritage materials, and other digital objects to create resources supporting communities of practice in their work. Prerequisites: LIS 60631 or 60638.

**60637/80637 Metadata Architectures and Implementation (3)**

Principles and theories of metadata development in the digital environment. Main focus is given to the design and applications of metadata schemas for distinct domains and information communities, issues in metadata interoperability, vocabulary control, quality control and evaluation. Examination of international standards, activities and projects with the use of case study approach. Prerequisite: LIS 60002.

**60638/80638 Digital Libraries (3)**

Issues related to the development and maintenance of digital libraries, including technology, collection development and management, project management, digital preservation, user-centered design, public service, rights management, and funding.

**60639/80639 Implementation of Digital Libraries (3)**

Explores issues related to implementation of digital libraries and provides hands-on experience for students to build digital library prototypes (small-scale) with open source software. The major emphasis is on design and implementation of key DL functions, including building digital collections, defining and creating metadata, indexing, browsing and retrieval, customizing interface, implementing services, encoding and transforming for data exchange, and testing the usability and effectiveness. Prerequisite: LIS 60003.

**60640/80640 Library Automations (3)**

Analysis, design and selection of automated library systems. Considers system analysis and requirements, networking

technologies, database management systems, multimedia and hypermedia, and client-serving computing. Also, proposals to vendors, contract negotiation, implementation, staffing, training, system maintenance and evaluation. Prerequisite: LIS 60002.

**60641/80641 Information Storage and Retrieval Systems (3)**

Fundamentals of information storage and retrieval systems: components, models, file structure, information representation, human-computer interaction, standards, protocols and evaluation of system performance. Design and evaluation of information storage and retrieval including contributions from artificial intelligence and cognitive research. Prerequisite: LIS 60002.

**60642/80642 Implementation of Information Storage and Retrieval Systems (3)**

Course has dual tracks: conceptual frameworks and basic technical skills. Covers all major aspects and latest advancements of an information retrieval system and their applications. Technical skills include Unix/Linux, PERL and CGI programming. Prerequisite: LIS 60002.

**60643/80643 Online Information Systems (3)**

Use of information technologies to search for and retrieve electronic information, primarily through the Internet. Analysis of database structures and electronic records; search principles and heuristics; database system producers; system interfaces; and evaluation of results. Prerequisite: LIS 60001.

**60644/80644 Information Science (3)**

Focal areas of information science: information retrieval systems, bibliometrics, citation analysis, systems analysis and evaluation, information technologies, information theory, information architecture, knowledge management and user experience.

**60645/80645 Database Systems (3)**

Characteristics and concepts of database systems; types of database



models; conceptual database design and implementation; the relational database model and its application: key issues, principles and techniques; current database technologies.

**60646/80646 User Interfaces for Information Retrieval Systems (3)**

Hardware considerations and programming for the implementation of user interfaces of computerized information retrieval systems, primarily for Web interfaces but also for online public access catalogs and other networked, client-server systems. Interface analysis, evaluation and design; project design and implementation.

**60647/80647 Network and Software Resources for Information Systems (3)**

Study, use and evaluation of current and emerging information technologies; network and software resources for libraries and information centers, including network analysis and management, standards, protocols and client-server technologies; and techniques for accessing and evaluating such technologies and resources.

**60648/80648 Electronic Publishing on the Web (3)**

Students gain the knowledge and skills to participate professionally in current electronic publishing activities, especially Web publishing, and to contribute to future developments in an innovative, socially responsible way.

**60649/80649 Indexing and Abstracting (3)**

Principles and methods of manual and computerized indexing and abstracting applied to I&A databases, back-of-book indexes, Web site indexes and sitemaps. Techniques of constructing indexing languages using international standards. Theory and practice of index design for specific formats

and subjects. Automation and I&A services in networked environments. Prerequisite: LIS 60002.

**60650/80650 Information Policy (3)**

Political, economic, cultural and legal issues regarding the production, distribution and use of information (print, electronic and Web). Policy-making process, standards and protocols, intellectual property, information economy, impact of computers on access and policy, privacy rights, transnational flow of information and the Internet and the World Wide Web. Prerequisite: LIS 60600.

**60651/80651 Digital Image Processing and Collection Management (3)**

This course is designed to introduce students to the fundamental concepts, terminology, techniques and applications of digital imaging as they relate to the development of digital image collections depicting works found in museum collections, archives, and special collections in libraries. Students will acquire knowledge and skills necessary to design, create, and manage digital images of text, graphics, slides, and reproductions of 3-D objects. They will also be introduced to the principles and issues that pertain to the creation and distribution of digital-image archives via image databases and the Web environment. Prerequisite: LIS 60002. Special fee: \$30 (Subject to change).

**60652/80652 Foundations and Administration of Archives (3)**

Introduction to the knowledge domains (functions) of modern archival work, including acquisition, appraisal (selection), arrangement, description and access, preservation, reference, records management and outreach. Coverage also includes special

media, such as the administration of electronic records, sound recordings and visual materials. A discussion of the role and work of archivists, historical foundations of archives, contemporary issues and conditions and professional needs and opportunities are also included.

**60654/80654 Preservation Management (3)**

Types and causes of deterioration of various kinds of materials, storage and preventive maintenance, preservation through photographic reproduction and microforms, restoration of rare materials.

**60661/80661 Technical Services (3)**

Principles, problems and current issues of acquiring, processing and preserving/conserving materials in libraries and information centers. Prerequisite: LIS 60002.

**60665/80665 Rare Book Librarianship (3)**

Study of the theory and practice of rare book librarianship through lectures, readings, discussion and practical exercises.

**60666/80666 Ethical Concerns of Library and Information Professionals (3)**

Analysis of ethical concerns of information professionals: codes of ethics, intellectual freedom, free access, privacy, confidentiality, computer issues and relations with management, clients and colleagues. Prerequisite: LIS 60600.

**60670 Culminating Experience (3)**

Under advisement of a faculty member, students will complete a project that serves as a culminating experience for the M.L.I.S. degree. The project may be a research paper, individual project or culminating practicum. S/U grading; IP permissible. Prerequisite: LIS 60001 and 60002 and 60003 and



60600 and 60610; and special approval. This course is not open to students in non-degree programs.

**60691/80691 Seminar in Library Science (1-3)**

Advanced research by small groups of students who are qualified to examine problems of certain special areas.

**60692 Practicum—Libraries and Information Centers (2-3)**

Supervised library or information center work experience of a professional nature of not less than 100 clock hours, directed readings and preparation of paper. May not be repeated. IP permissible. Prerequisite: special approval.

**60693 Variable Title Workshop—Library and Information Science (1-3)**

Intensive examination of special topics of interest to practicing librarians. May be repeated. Maximum workshop credit accepted for M.L.I.S. degree is 4 semester hours. S/U grading.

**60694/80694 College Teaching of Library Science (2-3)**

Staff training and experience in college teaching. Repeat registration permitted up to 10 hours. Maximum of 2 hours applicable toward master's degree requirements (with dean's approval). S/U grading; IP permissible. Prerequisite: special approval.

**60695/80695 Special Problems in Library Science (1-10)**

Individual research at high levels of specialization. Intended for persons in sixth-year program. Repeat registration permitted. IP permissible. Prerequisite: special approval.

**60792 Internship in Library Supervision and Management (2-10)**

Supervised library work experience of an advanced professional nature that concentrates on developing skills in supervision and management. Intended for persons in the sixth-year program. IP permissible. Prerequisite: special approval.

**61095/81095 Selected Topics in Library Science (1-3)**

Offered irregularly as resources and/or opportunities permit. Topics will be announced in the Schedule of Classes.

**61096/81096 Individual Investigation (1-2)**

Research or individual investigation for master's-level graduate students. Maximum credit per registration: 2 hours. Maximum credit toward master's degree: 4 hours. IP permissible. Prerequisite: special approval.

**Graduate Mathematics (MATH)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50011 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.

**50012 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 4/50011.

**50022 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. Prerequisite: MATH 21001 and 4/50012.

**50031 Basic Non-parametric Statistics (3)**

Rank tests for different kinds of hypotheses, large sample theory, efficiency comparisons, tests of Kolmogorov Smirnov type. Prerequisite: MATH 4/50012

**50041 Statistical Methods for Experiments (3)**

Comparison of two groups, t and F-statistics, ANOVA, oneway and multiway layouts, randomization, blocking. Linear regression, correlation and analysis of covariance (ANCOVA). Repeated measures-analysis of variance. Prerequisite: MATH 30011.

**50042 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.

**50051 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 4/50011.

**50055 Actuarial Mathematics I (4)**

Topics from survival models, stochastic analysis of annuities and life insurance and casualty models. Prerequisite: MATH 30055 and 50011.

**50056 Actuarial Mathematics II (4)**

Benefit premiums, benefit reserves and their analysis; decrement models, joint survivorship, risk models. Prerequisite: MATH 50055.

**50091 Seminar in Actuarial Mathematics (2)**

Seminar course designed to prepare students for the society of actuaries examination on actuarial mathematics. Prerequisite: MATH 50056.

**51001 Introduction to Modern Algebra I (3)**

Basic properties of groups, subgroups, factor groups. Basic properties of rings, integral domains and homomorphisms. Prerequisite: MATH 21001 and 22005.

**51002 Introduction to Modern Algebra II (3)**

A continuation of MATH 51001, emphasizing properties of rings, their ideals, polynomial ring extensions, fields, finite degree extensions, roots of polynomials, constructibility. Prerequisite: MATH 4/51001.

**51012 Finite Mathematics (3)**

(Cross-listed with CS 51012) Mathematics: emphasizing combinatorial techniques, graph applications in algorithms, finite algebra, number theory and probability. Covers useful mathematics for CS majors. Prerequisite: CS 31011 or MATH 31011.

**51021 Theory of Matrices (3)**

A rigorous study of the topics introduced in matrix algebra. Topics included are: canonical forms of matrices, diagonalizability criteria.

Prerequisite: MATH 21001 and 22005.

**51045 Metalogic (3)**

(Cross-listed with CS 54045 and PHIL 51045). Consideration of various metatheorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus, and incompleteness of the theory of arithmetic.

**52001 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. Prerequisite: MATH 21001 and 22005.

**52002 Introduction to Analysis II (3)**

Topics include further development of integration theory infinite series, uniform convergence, several variable calculus and metric spaces. Prerequisite: MATH 4/52001.

**52011 Mathematical Optimization (3)**

Analytical and numerical techniques for location of extreme points of functions and calculus of variations. Both constrained and unconstrained problems are considered. Prerequisite: MATH 21001 and 22005.

**52021 Graph Theory and Combinatorics (3)**

Fundamentals and applications of combinatorial mathematics. Topics include transversability, colorability, networks, inclusion and exclusion, matching and designs. Prerequisite: MATH 12003 and 21001.

**52024 Numbers and Games (3)**

The study of partisan and impartial combinatorial games; games as numbers; Grundy-Sprague theory. Prerequisite: approval of instructor.

**52031 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. Special fee: \$25.

**52041 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. Prerequisite: MATH 21001 and 22005.

**52045 Introduction to Partial Differential Equations (3)**

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.

**52048 Introduction to Complex Variables (3)**

Algebra of complex numbers, analytic functions, mappings, Cauchy integral theory, residue theory and applications. Prerequisite: MATH 22005.

**52091 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 required. IP permissible. S/U Grading permitted. Prerequisite: MATH 52031. Special fee: \$25.

**52201 Introduction to Numerical Computing I (3)**

(Cross-listed with CS 52201) An introduction to numerical methods and software for solving many common scientific computing problems. Linear systems, least-square data fitting, nonlinear

equations and systems and optimization problems. Prerequisite: MATH 12003, 21001 and CS 23021. Special fee: \$25.

**52202 Introduction to Numerical Computing II (3)**

(Cross-listed with CS 52202) A continuation of MATH 52201. Topics include interpolation, numerical differentiation and integration, and numerical solution of ordinary differential equations. Prerequisite: MATH 32044 and 52201. Special fee: \$25.

**55011 Differential Geometry (3)**

Analytic and metric differential geometry of curves and surfaces. Prerequisite: MATH 22005.

**55021 Euclidean Geometry (3)**

Geometry of Euclid extended to advanced topics of the triangle, quadrilaterals and circles; crossratio, groups, constructions, geometric generalizations; inversion. Prerequisite: MATH 21001.

**55022 Linear Geometry (3)**

Use of transformations as a tool to study geometry and to differentiate between different kinds of geometry. Linear algebra methods applied to geometry. Prerequisite: MATH 21001.

**56001 Elementary Topology (3)**

Metric spaces, introduction to topological spaces, separation axioms. Prerequisite: MATH 22005.

**57001 Mathematical Logic and Set Theory (3)**

Axiomatic set theory, relations, development of real numbers, cardinal number, axiom of choice. Prerequisite: special approval.

**57011 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.

**57021 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 hours of mathematics beyond 22005.

**57091 Selected Topics in Mathematics and Its Applications (1-3)**

Various special courses will be announced in the Schedule of Classes under this course number with different section numbers. Repeat registration permitted. Prerequisite: approval of instructor.

**59893 Variable Title Workshop in Mathematics (1-6)**

Studies in special topics in pure and applied mathematics. S/U grading. Prerequisite: special approval.

**60051/70051 Probability I (4)**

Distribution functions, measure theory, random variables, expectation, independence, convergence, concepts, law of large numbers. Prerequisite: MATH 4/50011 or 4/52002.

**60052/70052 Probability II (3)**

Characteristic functions, the central limit problem, conditional expectations, Martingale theory, Brownian motion. Prerequisite: MATH 6/70051.

**60061/70061 Mathematical Statistics I (4)**

Statistics, distributions of statistics. Sampling distributions. Decision spaces and loss functions. Sufficiency and completeness. Estimation theory. Rao Blackwell and the Cramer Rao theorems. Prerequisite: MATH 4/52002.

**60062/70062 Mathematical Statistics II (3)**

Tests of statistical hypothesis. Neyman Pearson Lemma. Exponential families and invariance. Sequential tests. Nonparametric procedures. Prerequisite: MATH 6/70061.

**60070/70070 Financial Mathematics (3)**

Topics from replication of trading strategies, arbitrage, completeness, martingale representation theorem, fundamental theorem of finance, stochastic differential equations, Black and Scholes formula of option pricing. Prerequisite: MATH 50051.

**60091/70091 Seminar in Statistics and Probability (1-3)**

Seminar on current research in statistics and probability. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**60093 Variable Title Workshop in Mathematics (1-3)**

Studies of special topics in mathematics. Not acceptable for credit toward a graduate degree in mathematics without approval of the student's advisor. S/U grading. Prerequisite: special approval.

**60094/70094 College Teaching of Mathematics (1)**

Techniques and problems in the teaching of college-level mathematics. Student presentations of mathematical papers and colloquia will be included.

**61051/71051 Abstract Algebra I (4)**

Advanced topics in group theory including Sylow Theorems, finite Abelian groups, divisible groups and related concepts. Includes one-hour problem session each week. Prerequisite: special approval.

**61052/71052 Abstract Algebra II (3)**

Advanced topics, commutative ring theory, and field theory, including polynomial rings, unique factorization domains, matrix rings, Galois theory. Prerequisite: MATH 6/71051.

**61091/71091 Seminar in Algebra (1-3)**

Seminar on current research in algebra. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**62041/72041 Methods of Applied Mathematics I (3)**

Analysis and applications of ordinary and partial differential equations and related topics. Dimensional analysis (Buckingham Pi Theorem). Perturbation methods (singular perturbations, matched asymptotic expansions, WKB approximation). Variational methods (Euler-Lagrange equations). Prerequisite: MATH 51021 and 52041 and 52045 and 52048.

**62042/72042 Methods of Applied Mathematics II (3)**

Continuation of MATH 6/72041. Integral equations and Green's functions (Fredholm alternative, compact operators, distributions, weak solutions). Wave phenomena (dispersion, KdV equation). Stability and bifurcation (linearized stability analysis, turning points, Hopf bifurcation). Prerequisite: MATH 6/72041.

**62051/72051 Functions of a Real Variable I (4)**

Introduction to modern concepts of real analysis including metric spaces, measure and integration theory. Prerequisite: MATH 4/52002.

**62052/72052 Functions of a Real Variable II (3)**

A continuation of MATH 6/72051. Included are basic topics in functional analysis and Hilbert space theory. Prerequisite: MATH 6/72051.

**62091/72091 Seminar in Real Analysis (1-3)**

Seminar on current research in real analysis. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**62151/72151 Functions of a Complex Variable I (4)**

Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces. Prerequisite: MATH 4/52002.

**62152/72152 Functions of a Complex Variable II (3)**

Topological properties of the complex plane; analytic, entire, meromorphic functions; analytic continuation; conformal mappings; Picard's Theorem; Riemann surfaces. Prerequisite: MATH 62151.

**62191/72191 Seminar in Complex Analysis (1-3)**

Seminar on current research in complex analysis. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**62201 Numerical Computing I (3)**  
(Cross-listed with CS 6/72201)

Numerical methods for scientific computing emphasizing modern mathematical software and environments. Computer arithmetic and errors, linear systems of equations, least squares data fitting, eigenvalues and singular values, nonlinear systems, optimization. Computer programming experience (C or C++ or Fortran) required. Prerequisite: MATH 21001 and 22005.

**62202/72202 Numerical Computing II (3)**

(Cross-listed with CS 6/72202) A continuation of MATH 6/72201. Interpolation, numerical integration and differentiation, ordinary differential equations, initial and boundary value problems, partial differential equations, fast Fourier transforms and applications. Prerequisite: MATH 52045 and 6/72201.

**62203/72203 Computational Finance (3)**

Basic numerical methods (numerical linear algebra, nonlinear equations, curve fitting, ODEs, integration, Monte-Carlo methods), numerical solution of PDEs (stability, convergence, Black-Scholes, American options, SDEs), probabilistic methods. Prerequisite: MATH 22005 and 21001 and 32044; and CS 10061. Special fee: \$25.

**62251/72251 Numerical Analysis I (4)**

(Cross-listed with CS 6/72251) Floating point computation, rounding error analysis, conditioning, interpolation (polynomial, trigonometric, spline). Numerical quadrature (Newton-Cotes, Gauss), extrapolation, Romberg integration. Prerequisite: MATH 4/52002.

**62252/72252 Numerical Analysis II (3)**

(Cross-listed with CS 6/72252) Numerical solution of linear systems of equations (LU factorization, error analysis). Least squares, orthogonalization methods. Algebraic eigenvalue problems, QR algorithm, singular value decomposition. Prerequisite: MATH 4/51021 and 6/72251.

**62261/72261 Numerical Solution of Ordinary Differential Equations (3)**

(Cross-listed with CS 6/72261) Discretization methods for ordinary differential equations and systems. Initial-value and boundary value problems. Numerical implementation, software and analysis. Prerequisite: MATH 32044 and 4/52202.

**62262/72262 Numerical Solution of Partial Differential Equations (3)**

(Cross-listed with CS 6/72262) Derivation and analysis of discrete methods (finite differences, finite elements) for the numerical solution of elliptic, hyperbolic and parabolic partial differential equations. Prerequisite: MATH 4/52045 and 4/52202.

**62263/72263 Numerical Solution of Large Sparse Linear Systems (3)**

(Cross-listed with CS 6/72263) Construction and analysis of iterative methods for large systems of linear algebraic equations. Jacobi, Gauss-Seidel, SOR. Polynomial acceleration methods, conjugate gradients. Multigrid methods. Prerequisite: MATH 4/51021 and 4/52202.

**62264/72264 Numerical Solution of Nonlinear Systems (3)**

(Cross-listed with CS 6/72264)  
Construction and analysis of nonlinear methods for systems of nonlinear algebraic equations and optimization problems. Numerical implementation and software.  
Prerequisite: MATH 4/52041 and 4/52202.

**62291/72291 Seminar in Numerical Analysis (1-3)**

Seminar on current research in numerical analysis. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**62391/72391 Seminar in Measure Theory (1-3)**

Seminar on current research in measure theory. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**62491/72491 Seminar in Nonlinear Analysis (1-3)**

Seminar on current research in nonlinear analysis. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**62591/72591 Seminar in Operator Theory (1-3)**

Seminar on current research in operator theory. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**62691/72691 Seminar in Harmonic Analysis (1-3)**

Seminar on current research in harmonic analysis. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval. 63291/73291 Seminar in Applied Mathematics (1-3)  
Seminar on current research in applied mathematics. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**64091 Seminar in Mathematics Education (3)**

Studies in geometry, algebra, mathematics for junior and senior high school. Mathematics content professionalized for teachers. Repeat registration permitted. Prerequisite: MATH 34001.

**66051/76051 Introduction to Topology I (4)**

Set theory, topological spaces, continuity, product spaces, quotient spaces, separation axioms, compactness and metrizability. Prerequisite: special approval.

**66052/76052 Introduction to Topology II (3)**

Geometric topology, including connectedness, continua, homotopy, the plane and 2 manifolds. Prerequisite: MATH 6/76051.

**66091/76091 Seminar in Topology (1-3)**

Seminar on current research in topology. Repeated registration permitted. S/U grading permissible. Prerequisite: special approval.

**67098/77098 Research (1-15)**

Research or individual investigation. Credits are applied toward degree requirements, with approval, if letter grade of "S" is given. Repeat registration permitted.

**67199 Thesis I (2-6)**

Thesis student must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**67299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: MATH 67199.

**70095 Selected Topics in Statistics and Probability (1-3)**

Contents will vary with each offering and will complement topics covered in MATH 6/70051, 6/70052, 6/70061 and 6/70062. Repeat registration permitted. Prerequisite: special approval.

**71001 Structure of Rings and Algebras I (3)**

Advanced topics in ring theory, including Artinian rings, Noetherian rings, advanced commutative ring theory. Prerequisite: special approval.

**71002 Structure of Rings and Algebras II (3)**

Advanced topics in ring theory including an introduction to homological algebra. Includes Dedekind domains, regular rings, torsion theory. Prerequisite: MATH 71001.

**71011 Advanced Group Theory (3)**

Advanced topics in group theory. Topics include permutation arguments, coprime actions, transfer theorems, nonsimplicity criteria. Properties of families of groups: solvable, p solvable, nilpotent, p groups. Repeat registration permitted. Prerequisite: MATH 6/71051 and 6/71052.

**71012 Characters of Finite Groups (3)**

Development of characters of finite groups, their properties, orthogonality relations, integrality conditions. Applications include Burnside's pq theorem and existence of Frobenius kernels in Frobenius groups. Prerequisite: MATH 6/71051 and 6/71052.

**71095 Selected Topics in Algebra (1-3)**

Contents will vary with each offering and will complement topics covered in MATH 6/71051, 6/71052, 71001 and 71002. Repeat registration permitted. Prerequisite: special approval.

**72001 Functional Analysis I (3)**

A study of principles of linear analysis in the setting of normed linear spaces and topological vector spaces. Prerequisite: MATH 6/72052.

**72002 Functional Analysis II (3)**

A continuation of MATH 72001. A study of principles of linear analysis in the setting of normed linear

spaces and topological vector spaces. Prerequisite: MATH 6/72052.

**72011 Advanced Differential Equations (3)**

Advanced topics in ordinary differential equations in real and complex plane. Prerequisite: MATH 6/72051 and 6/72151.

**72021 Summability Theory (3)**

Generalizations of concept of convergent sequence; properties of classical summability methods and of related sequence spaces. Prerequisite: approval of instructor.

**72095 Selected Topics in Real Analysis (1-3)**

Contents will vary with each offering and will implement topics covered in MATH 6/72051, 6/72052 and 6/72002. Repeat registration permitted. Prerequisite: special approval.

**72195 Selected Topics in Complex Analysis (1-3)**

Contents will vary with each offering and will complement topics covered in MATH 6/72151, 6/72152 and 72021. Repeat registration permitted. Prerequisite: special approval.

**72201 Approximation Theory (3)**

Introduction to polynomial, trigonometric and spline approximations; direct and inverse theorems of constructive function theory; other topics chosen according to interest of students and instructors. Prerequisite: special approval.

**72295 Selected Topics in Numerical Analysis (1-3)**

Contents will vary with each offering and will complement topics covered in MATH 6/72251, 6/72252 and MATH 72201. Repeat registration permitted. Prerequisite: special approval.

**76001 Algebraic Topology I (3)**

Singular and simplicial homology and cohomology theory. Homotopy theory. Prerequisite: special approval.

**76002 Algebraic Topology II (3)**

A continuation of MATH 76001. Singular and simplicial homology and cohomology theory. Homotopy theory. Prerequisite: special approval.

**76095 Selected Topics in Topology (1-3)**

Contents will vary with each offering and will complement topics covered in MATH 6/76051, 6/76052, 76001 and 76002. Repeat registration permitted. Prerequisite: special approval.

**77011 Algebraic Number Theory (3)**

Number fields and Dedekind domains; conjugates, norm and trace, discriminant, integral bases; arithmetic of quadratic and cyclotomic number fields; theory of ideals and class group; Dirichlet's theorem on units. Prerequisite: MATH 57011 and MATH 6/71052.

**77012 Analytic Number Theory (3)**

Multiplicative functions and summatory functions, Riemann's Zeta Function and the Prime Number Theorem, L-functions and Dirichlet's theorem on primes in arithmetic progressions, asymptotic formula for partitions. Prerequisite: MATH 57011 and MATH 6/72151.

**77095 Selected Topics in Mathematics (1-3)**

Contents will vary with each offering. Repeat registration permitted. Prerequisite: special approval.

**77098 Research (1-15)**

Research or individual investigation. Credits are applied toward degree requirements with approval if letter grade of "S" is given. Repeated registration permitted.

**77195 Selected Topics in Number Theory (1-3)**

Content varies with each offering and complements topics covered in MATH 77011 and MATH 77012.

Repeat registration permitted. Prerequisite: special approval.

**87098 Research (1-15)**

Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. Credits earned may be applied toward degree if department approves. Repeat registration permitted.

**87199 Dissertation (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy for doctoral degree.

**87299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: MATH 87199.

**Graduate Middle Childhood Education (MCED)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

### **50002 Teaching Science in Middle Childhood II (3)\***

Individual and group work develop effective techniques of teaching science concepts to 8 to 14 year olds. Attention given to methods, equipment, safety and planning. This course includes 40 field/clinical hours. Special fee: \$15 per semester. Prerequisite: MCED 30002.

### **50003 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. Applies the principles of powerful teaching. Includes a major field experience at the student teaching site. Prerequisite: MCED 30002.

### **50005 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.

### **50006 Reading and Writing in Middle Childhood (3)**

Understanding of literacy learning in 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.

### **50007 Teaching Reading with Literature in Middle Childhood (3)**

The study of the teaching of reading

with literature with middle childhood students within an integrated language arts approach in a comprehensive literature program. Prerequisite: MCED 50006.

### **50045 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 minimum grade of C.

### **52358 Student Teaching in Middle Childhood (9)\***

Full-time student teaching for 12 weeks on an interdisciplinary team in two selected concentrations (mathematics, language arts, social studies, science) and reading in grades 4-9. Prerequisite: approval of program coordinator.

### **56645 Critical Inquiry and Integration: Science and Social Studies, Grade 4 (3)**

Introduces students to fourth grade content using an interdisciplinary, inquiry approach to teaching and learning in science and social studies. Prerequisite: special approval.

### **57745 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 an interdisciplinary, inquiry approach to teaching and learning in science and social studies. Prerequisite: special approval.

### **59525 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. Prerequisite: Minimum grade of "C" in CI 67107, and MCED 50007.

### **60092/70092\* Advanced Practicum in Middle Childhood (2-6)**

Teaching and observing in grades 4-9.

## **Modern and Classical Language Studies (MCLS)**

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### **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)**

(Repeatable for credit) 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)**

(Repeatable for credit) 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)**

(Repeatable for credit) 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.

**Graduate Music (MUS)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50295 Special Topics: Music, Variable Title (1-3)**

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.

**50296 Independent Study: Music (1-3)**

Individual investigation in music topics either not offered as regular coursework or beyond the scope of existing music major courses. Prerequisite: Music (MUS) major and special approval.

**51131 Keyboard Harmony (3)**

Theoretical skills demonstrated at the keyboard. Harmonization of melodies in homophonic style, realization of figured bass, score reading, modulation and improvisation.

**51141/71141 16th-Century Counterpoint (3)**

Two- three- and four-part vocal counterpoint in 16th-century style.

**51151/71151 18th-Century Counterpoint (3)**

Technique of writing counterpoint in 18th-century style, especially that of J. S. Bach.

**51161 Advanced Musical Analysis (3)**

A study of 20th-century approaches to tonal and nontonal musical analysis. Emphasis on familiarity with styles, nomenclature and appropriate graphic techniques.

**51211 Composition (2)**

Study of the materials and techniques of composition culminating in original compositions based upon observable principles of unity and variety.

**51231/71231 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 Electronic Music Studio. Prerequisite: Music (MUS) major.

**51321 Orchestration (3)**

Ranges, tonal possibilities, technical limitations and transpositions for all orchestral instruments. Scoring techniques and analysis of

representative instrumental ensemble repertoire.

**51341 Jazz Improvisation (2)**

The development of the art of jazz improvisation through performance and analysis.

**51342 Jazz Arranging (2)**

Arranging for the large and small jazz ensemble.

**52111 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.

**52131 America's Music (3)**

Historical survey of music in America from New England psalmody to present-day compositional trends.

**52141 Folk and Traditional Music of Western Continents (3)**

Study of selected music cultures of Eastern and Western Europe, and South, Central and North America.

**52151 Asian Musics (3)**

Survey of Asian musics. Emphasis on art, folk and popular musics and relationships of these musics to their respective cultures.

**52161 History of Jazz (3)**

The evolution of jazz from its origins to the present.

**52171 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.

**52221 Symphonic Literature (3)**

Historical and stylistic survey of music for large instrumental ensemble.

**52222 Chamber Music Literature (3)**

Historical and stylistic survey of chamber music literature.

**52241 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.

**52251 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.

**52261 Opera Literature (3)**

The historical development of opera from the 17th century to the present. Detailed analysis of representative works.

**52271 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.

**52272 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).

**53241 Marching Band Techniques and Literature (1)**

Organization, administration and techniques of marching bands in the schools. Topics covered include musical styles, literature and show design. Prerequisite: special approval.

**53242 Jazz Ensemble Techniques (2)**

Organization and administration of the jazz ensemble with emphasis on musical interpretation, jazz styles and rehearsal techniques taught through laboratory experience. Prerequisite: special approval.

**53243 Vocal Jazz and Musical Theatre in the Schools (2)**

Basic techniques and materials for teaching vocal jazz and musical theatre in the schools.

Administration, organization and publicity for productions as well as literature for these performing groups will be explored.

**55111 University Choir (1)**

Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**55121 Kent Chorus (1)**

Study and performance of choral music from Renaissance through contemporary styles, large and small forms with appropriate accompaniment.

**55131/75131 Opera: Singer-Actor Techniques (2)**

A course designed to give the young singing actor practical operatic experience in the performance of portions of or complete operas.

**55141/75141 Kent State University Chorale (1)**

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.

**55142 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.

**55143 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.

**55151 Kent State University Gospel Choir (1)**

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.

**55212/75212 Kent State University Orchestra (1)**

A select group of instrumentalists for the purpose of studying and performing music written specifically for chamber orchestra including works of the 17th, 18th, 19th and 20th centuries. An audition is required before registering for this course. Prerequisite: special approval.

**55221 Concert Band (1)**

Study and performance of music literature for wind band.

**55222 Marching Band (1)**

Study and performance of literature and maneuvers for marching band. Repeatable up to 6 hours.

**55223/75223 Wind Ensemble (1)**

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.

**55231/75231 Jazz Ensemble (1)**

Study and performance of music literature in the jazz idiom.

**55241 Trombone Ensemble (1)**

A thorough study of trombone performance in various size ensembles. Emphasis on original literature from over four centuries.

**55251 Percussion Ensemble (1)**

A comprehensive study of percussion performance in various size ensembles. Use of keyboard percussion instruments along with drums and accessories. Study of percussion ensemble literature.

**55261 Bassoon Ensemble (1)**

Study and performance of music for multiple bassoons; emphasis upon refined ensemble playing, interpretation, leadership skills and arranging techniques. Repeat registration permitted.

**55271/75271 New Music Ensemble (1)**

Study and performance of 20th-century chamber music with an emphasis on works by contemporary composers. Repeat registration permitted.

**55281 Flute Ensemble (1)**

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. Repeat registration permitted.

**55311/75311 Chamber Music (1-2)**

The study and performance of music for small ensembles.

**55321 Accompanying (1-2)**

Accompanying instrumental and vocal soloists; piano ensemble works. Credit counted toward ensemble requirements. One hour credit for two hours of assigned accompanying weekly. Repeat registration permitted.

**58111 Eurythmics (1)**

Applied study of rhythm through kinesthetic, intellectual and emotional involvement. Movement experiences to strengthen concentration and communication among ear, brain and muscles that execute rhythm.

**58112 Eurythmics (1)**

A continuation of MUS 58111. Prerequisite: MUS 58111.

**58221 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.

**58222 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.

**58241 Voice Pedagogy (2)**

Survey of techniques, practices and materials of teaching voice.

**58251 Pedagogy of Music Theory (2)**

The principles and techniques of teaching music theory.

**58257 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.

**58393/78393 Variable Title Workshop in Music (1-4)**

Offered for specific professional needs. Emphasis on performance and pedagogical skills. S/U grading.

**61131/71131 Schenkerian Analysis (3)**

An introduction to musical analysis according to the principles expounded by Heinrich Schenker and later exponents of his ideas.

**61171/71171 Analytical Techniques I (3)**

The application of standard analytical techniques to works of various style periods.

**61172/71172 Analytical Techniques II (3)**

The application of standard analytical techniques to works of various style periods.

**61211 Composition (2-4)**

Original composition using longer forms of music for diverse media including multimedia and electronic composition. Repeat registration permitted.

**61331/71331 Band Arranging (2)**

Arranging in traditional and contemporary styles for the wind ensemble, concert band and/or marching band.

**62227/72227 History and Literature of the Wind Band (2)**

Historical survey of wind band literature and the development of the ensemble.

**62281/72281 Seminar in Music History and Literature (3)**

Selected problems of research in music history and literature. Each student will be responsible for presenting papers for discussion. Repeat registration permitted.

**62412/72412 Introduction to Ethnomusicology (3)**

A study of the history, concepts and methods of ethnomusicology, techniques of field research, transcription, analysis and bibliography. Prerequisite: MUS 52111 or 52141 or 52151.

**62413/72413 Advanced Field and Lab Methods in Ethnomusicology (3)**

Development of professional-level research skills in all media of field documentation, transcription, analysis and scholarly writing. Study of current related issues in ethnomusicology. Prerequisite: MUS 62412.

**62451/72451 Introduction to Musicology (3)**

Techniques of music research and creative musical writing including special projects, reports and readings.

**62511/72511 Music History I (3)**

A study of Western music history and its place in the medieval world to the beginning of the 16th century (ca. 1520).

**62521/72521 Music History II (3)**

A study of Western music history and its place in the cultural milieu of the late Renaissance and Baroque eras.

**62531/72531 Music History III (3)**

A study of Western music during the classical period and the classic tradition to the end of the 19th century.

**62541/72541 Music History IV (3)**

A study of romantically inclined composers to the end of the 19th century and major trends, techniques and composers since 1900.

**62601/72601 Seminar in Musics of Africa (3)**

Specialized investigations of music cultures of Africa.

**62602/72602 Seminar in Musics of the Americas (3)**

Specialized investigation of music cultures of the Americas.

**62603/72603 Seminar in Musics of the Middle East (3)**

Specialized investigation of music cultures of the Middle East.

**62604/72604 Seminar in Musics of East Asia (3)**

Specialized investigation of music cultures of East Asia.

**62605/72605 Seminar in Musics of South Asia (3)**

Specialized investigation of music cultures of South Asia.

**62606/72606 Seminar in Musics of Southeast Asia (3)**

Specialized investigation of music cultures in Southeast Asia.

**63198 Capstone Project (3-6)**

Working under the supervision of a capstone advisor, students demonstrate synthesis of knowledge through the development of a curricular project applicable to the student's area of teaching. S/U graded.

**63241 Inquiry in Music Teaching and Learning I (3)**

Conducting and presenting assessment, evaluation, and research of music teaching and learning with emphasis on quantitative methodologies.

**63242 Inquiry in Music Teaching and Learning II (3)**

Conducting and presenting assessment, evaluation, and research of music teaching and learning with emphasis on quantitative methodologies.

**63261/73261 Advanced Studies in Teaching Choral Music (3)**

Development of Teaching materials, an annotated choral repertory list and instructional strategies for choral music with emphasis on rehearsal procedures and analytical techniques.

**63262/73262****Advanced Studies in Teaching Instrumental Music (3)**

Development of Teaching materials, an annotated instrumental repertory list and instructional strategies for instrumental music with emphasis on rehearsal procedures and analytical techniques.

**63263/73263 Advanced Studies in Teaching General Music (3)**

Program development, inclusion, instructional materials and innovative teaching techniques for general music programs.

**63271/73271 Measurement and Evaluation in Music (3)**

Study of measurement and evaluation techniques for music aptitude, achievement and preference. Emphasis on developing teacher-made tests and on available standardized music tests.

**63272/73272 Learning Theories in Music (3)**

Application of current theories of learning to the teaching and learning of music.

**63273/73273 Psychology of Music (3)**

The study of music's effect on human behavior including physiological and affective responses. Applications of music psychology to the teaching and learning of music will be explored.

**63274/73274 Foundations of Music Education (3)**

Study of the field of music education from perspectives of sociology, psychology, philosophy, curriculum, history and comparative curricula.

**63283/73283 Research in Music Education (3)**

Introduction to research techniques in music education including topic selection, data collection, analysis and interpretation; and presentation of information in written form.

**63284/73284 History of Music Education (3)**

Study of historical approaches to music education with emphasis on significant people, places and events that have influenced music teaching and learning music. Prerequisite: MUS 63274.

**63285/73285 Philosophy of Music Education (3)**

Study of the philosophical foundations of music education with emphasis on the application of aesthetics to teaching and experiencing music. Prerequisite: MUS 63274.

**63311/73311 Dalcroze Techniques in Music Education (2)**

Dalcroze principles of eurhythmics, ear training and keyboard improvisation as applied to teaching music in schools. Emphasis on teaching young children. Development of teaching skills. Prerequisite: MUS 58111.

**64111/74111 Conducting Projects: Choral (2 or 4)**

Choral conducting techniques, score analysis, rehearsal procedures and study of musical style. Repeat registration permitted.

**64121/74121 Conducting Projects: Band: (2 or 4)**

Band-conducting techniques, score analysis, rehearsal procedures and study of musical style. Repeat registration permitted.

**64131/74131 Conducting Projects: Orchestra (2 or 4)**

Orchestra-conducting techniques, score analysis, rehearsal procedures and study of musical style. Repeat registration permitted. Prerequisite: special approval.

**Applied Music**

All of the following courses require permission before registration. Repeat registration permissible.

Students who plan to register for applied music for the first time must appear for an audition before the examination committee of the Hugh A. Glauser School of Music prior to registration in order to be assigned a course number and instructor.

Privately instructed applied music courses are offered each semester. Each course provides a one-half-hour private lesson weekly for 2 semester hours of credit or a one-hour lesson weekly for 4 semester hours of credit. In order to receive a passing grade in applied music, performance of a juried examination is required during the week of final examinations each semester of registration. Approved exceptions include the performance of a degree recital, a full concerto with instrumental ensemble or a major role in an opera performed during the semester of enrollment. The private instruction fee is \$50 per credit hour. Prerequisite for each course is an audition.

	<b>Master's</b>	<b>Doctoral</b>
Piano	66111	76111
Piano Accompanying	66112	
Voice	66311	76311
Violin	66411	76411
Viola	66412	76412

Cello	66413	76413
Double Bass	66414	76414
Flute	66511	76511
Oboe	66512	76512
Clarinet	66513	76513
Bassoon	66514	76514
Saxophone	66515	76515
Trumpet	66611	76611
Horn	66612	76612
Trombone	66613	76613
Euphonium	66614	76614
Tuba	66615	76615
Percussion	66711	76711
Guitar	66912	76912

**66191 Seminar in Accompanying (2)**

Studio performances of standard repertoire for piano and voice or instruments; investigation of other topics relating to the accompanying of the repertoire. Repeat registration permitted.

**67243 Technology for Music Teaching and Learning (3)**

Study of a variety of music software and hardware; students design and implement a project pertaining to their professional interests.

**68199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters, if desired. S/U grading; IP permissible.

**68299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: MUS 68199.

**68214/78214 Piano Pedagogy and Materials I (3)**

Teaching techniques and materials for the studio teacher including approach to philosophy of teaching, lesson structure and current innovations.

**68215/78215 Piano Pedagogy and Materials II (3)**

Teaching techniques and materials for the studio teacher; analysis of specific teaching problems including the teaching of 20th-century music.

**68294/78294 College Teaching of Music (3)**

Study of administrative structure, faculty role, pedagogy, content and evaluation relating to the college music curriculum.

**68598 Research (1-15)**

Research or individual investigation for master's-level graduate students. IP permissible.

**68687 Recital (1-3)**

Required of all performance majors and music education majors who choose performance option. S/U grading. Prerequisite: Special approval.

**68698 Essay (1-3)**

Required of performance majors and music education majors who choose the recital and essay option. S/U grading; IP permissible.

**71121 Evolution of Music Theory (3)**

A systematic study of significant theoretical speculation as proposed in the writings of Western theorists, ca. 500 to the present.

**71191 Seminar in 20th-Century Music and Techniques (3)**

Detailed class analysis of scores using specified styles and

techniques; individual projects in areas of particular interest to the student. Repeatable to 6 hours credit.

**71195 Special Projects in Theoretical Studies (3)**

Individual and class investigation into specific methods of analysis and their application to music in various styles.

**71241 Electronic Music Composition (2-4)**

Original composition using tape recorders and analog synthesizers. Repeatable to 8 hours credit.

**72211 Notation I (3)**

Study and transcription of white mensural notation (ca. 1450- 1600) and the various types of keyboard and lute tablatures.

**72212 Notation II (3)**

Study of the notation of medieval polyphonic music from the earliest forms of organum through end of the 14th century. Prerequisite: MUS 72211.

**72691 Seminar in Ethnomusicology (3)**

Specialized topics in ethnomusicology for advanced students.

**73295 Special Topics in Music Education (3)**

Advanced study in selected topics that will vary from semester to semester depending on needs and interests of students. Repeat registration permitted.

**73381 Advanced Research in Music Education (3)**

The design, implementation and reporting of research studies that illustrate a variety of methodological and statistical plans for research in music education. Prerequisite: MUS 6/73283, doctoral standing or permission.

**81196 Individual Investigation in Music Theory (1-6)**

Intensive research or readings on selected topic beyond normal course

coverage. Repeat registration permitted. S/U grading.

### **81211 Composition (2 or 4)**

Refinement of compositional techniques culminating in largescale works for media of student's choice. Repeat registration permitted.

### **82291 Seminar in Musicology (3)**

Examination into primary sources, treatises and writings in selected areas in Western music. Topics selected range from medieval period to present. Repeat registration permitted.

### **82396 Individual Investigation in Musicology (1-6)**

Intensive research or readings on selected topic beyond normal course coverage. Repeat registration permitted. S/U grading. Prerequisite: special approval.

### **82696 Individual Investigation in Ethnomusicology (1-6)**

Intensive research or readings on selected topic beyond normal course coverage. Repeat registration permitted. S/U grading.

### **83196 Individual Investigation in Music Education (1-6)**

Intensive research or readings on selected topic beyond normal course coverage. Repeat registration permitted. S/U grading.

### **83211 Seminar in Teacher Education in Music (3)**

Investigation of the role of curriculum, accreditation and certification in music teacher education. Procedures related to teaching methods courses and to the student teaching program.

### **88199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: pass candidacy examination.

### **88299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: MUS 88199.

### **88598 Research (1-15)**

Research or individual investigation for doctoral students who have not yet passed their candidacy examinations. IP permissible.

## **Graduate Nursing (NURS)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **50057 Case Management in Healthcare Agencies (2 or 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.

### **60000 Adult Clinical Nurse Specialist I (4)**

Introduces students to the Clinical Nurse Specialist (CNS) role in a specialty area (identified as a population, type of problem, setting, type of care or disease/pathology/medical specialty) with an emphasis on the patient sphere. Students have the opportunity to apply and evaluate theory and research in advanced assessment, pathophysiological processes, evidence-based interventions for disease

management, and principles of teaching and coaching across the continuum of adult healthcare settings. Focus is on acquiring advanced knowledge in patient diagnosis, management and treatment in a specialized area. Emphasis is on identification and management of symptoms, functional problems and risk behaviors commonly encountered in practice. Students select benchmarks and apply clinical measurement strategies in identifying achievement of clinical outcomes. Comprised of 3 didactic content hours per week and a clinical practicum of 7 hours per week. Prerequisite: NURS 60045.

### **60001 Psychiatric Mental Health for Advanced Practicing Nursing Adult I: Individual and Family (3)**

Study of theoretical approaches to advanced psychiatric mental health nursing practice with individuals and families who are experiencing identified mental health problems. Clinical interviewing and assessment skills related to individuals and families are emphasized, as are basic elements related to individual and family/couple psychotherapy. Pre- or corequisites: NURS 60201.

### **60002 Psychiatric Mental Health for Advanced Practicing Nursing Adult II: Group, Organization and Community (3)**

Study of the theoretical approaches to psychiatric mental health advanced practice nursing with groups, organizations and communities. Emphasis is on learning group psychotherapy, consultation and liaison skills. Students will develop skills in performing a community needs assessment. Prerequisite: NURS 60001.



**60003 Consultation and Liaison Psychiatric Nursing (3)**

Study of needs assessment, program development and evaluation research; consultation with professionals and nonprofessionals, and liaison nursing. Prerequisite: NURS 60001 and 60002; and corequisite NURS 66692.

**60004 Psychiatric Mental Health for Advanced Practicing Nursing Child/Adolescent I: Individual and Family (3)**

Study of theoretical approaches to advanced psychiatric mental health nursing practice with children, adolescents and families who are experiencing identified mental health problems. Clinical interviewing and assessment skills related to individuals and families are emphasized, as are basic elements related to individual and family/couple psychotherapy. Pre- or Corequisite: NURS 60208.

**60005 Psychiatric Mental Health for Advanced Practicing Nursing Child/Adolescent II: Group, Organization and Community (3)**

Study of the theoretical approaches to psychiatric mental health advanced practice nursing with groups, organizations and communities. Emphasis is on learning group psychotherapy with adolescents, consultation and liaison skills. Students will develop skills in performing a community needs assessment. Prerequisites: NURS 60004.

**60006 Introduction to Family Assessment and Counseling in Nursing (3)**

Study of theoretical approaches to counseling interventions with families and couples. Current status of research and evaluation of care is examined.

**60021 Acute Care for Nurse Practitioners (5)**

Emphasizes core principles and competencies that direct the clinical practice of Acute Care Nurse Practitioners. APN Critical and Acute Care concepts are primary didactic objectives of course. Acute Care foundations across continuum of health services highlighted.

ACNP student will be instructed and clinically mentored to utilize invasive interventions and procedures. Restorative care focus of ACNP. Prerequisite: NURS 60042.

**60022 Acute Care Therapeutics (3)**

Emphasizes clinical understanding, evidenced based selection, monitoring and use of selected pharmacologic agents, parental nutritional products, and hematological agents used in Acute Care, Critical Care, Emergency and Sub-Acute patient populations. Management of fluid and electrolyte disorders, basic toxicology and hospital and community acquired infection related therapies. Prerequisite: NURS 60441.

**60023 Adult Clinical Nurse Specialist II (4)**

Further develops the clinical nurse specialist (CNS) role with an emphasis on nursing and organizational spheres. Students use system-level thinking to identify and address nursing practice and organizational problems across the continuum of adult health settings. Essential core content includes research and scientific innovations, nurse sensitive outcomes, change theory, collaborative practice, technology and cost effectiveness. Focus is on developing solutions to problems identified in nursing and organizational spheres. Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week. Prerequisites: NURS

60000 and 60045.

**60034 PCN Nurse Practitioner Mastery Practicum (2)**

Emphasis will be on refinement of nurse practitioner skills and expansion of knowledge base in selected areas of concentration. Prerequisite: NURS 60031.

**60035 Adult Clinical Nurse Specialist III (4)**

Provides the clinical nurse specialist student the opportunity to apply previously acquired knowledge in advanced nursing practice in the patient, and nurse spheres with special emphasis on the organizational sphere in their clinical focus area. Focus is on role transition, clinical expertise, application and synthesis. Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week. Prerequisite: NURS 60000 and 60023.

**60036 Women's Health Nurse Practitioner Clinical Practicum (2-4)**

Emphasis will be placed on refinement of women's health nurse practitioner skills and expansion of knowledge base related to women's health in selected areas of concentration. IP permissible. Prerequisite: NURS 60081.

**60037 Pediatric Nurse Practitioner Clinical Practicum (2-4)**

Clinical focus will be on advanced nursing practice in the primary care of children. Students will improve on physical assessment skills, diagnostic reasoning and critical thinking through practice. IP permissible.

**60041 Advanced Assessment of Adult Clients (3)**

Assessment, reasoning and decision-making skills for the

advanced practice nurse to formulate comprehensive health databases and therapeutic regimens for adult clients. IP permissible.

**60042 Adult Primary Health Care I (5)**

Advanced primary health care for the nurse practitioner student caring for adult clients with common acute and chronic disorders. Emphasis on nursing and health care management within a multidisciplinary context. IP permissible. Prerequisite: NURS 60041 and 60045 and 60206.

**60043 Adult Primary Health Care II (5)**

Advanced primary health care for the nurse practitioner student caring for adult clients with complex acute and chronic disorders. Emphasis on nursing and health care management in a multidisciplinary context. IP permissible. Prerequisite: NURS 60041 and 60205 and 60206 and 60441.

**60045 Pathophysiology for Advanced Practice Nurses (3)**

Provides graduate nursing students with a theoretic foundation of human physiology and the phenomena that produce alterations or pathology in human physiologic function; and an understanding of the basis of disease processes. Assumes students have basic understanding of human biology comparable to BSCI 20020, Structure and Function and BSCI 30030, Human Physiology content.

**60050 Pharmacology for Women's Health Nurse Practitioners(3)**

Web-based course focuses on pharmacology related specifically to women throughout their lifespan. Prepares Advanced Nurse Practitioners to meet the pharmacological healthcare needs of women in primary healthcare settings. Prerequisite: NURS 60441 and 60080.

**60053 Clinical Intervention Physiological Health (5)**

Clinical reasoning (diagnosis, intervention, outcome evaluation) for Clinical Nurse Specialist students, applied to complex problems of clients and their health behaviors, with emphasis on relationship to physiological status. Clinical sites individualized. Prerequisite: NURS 60045.

**60056 Adult Health Nursing Intervention/Psychosocial Health (5)**

Clinical reasoning applied to complex problems of clients and their health behaviors for Clinical Nurse Specialist students. Includes analysis of socioeconomic, health policies, developmental stages, belief systems and life styles. Clinical sites individualized. Prerequisite: NURS 60045.

**60072 Women's Health Nurse Practitioner Capstone (4)**

Focus is on synthesizing women's health nurse practitioner knowledge and skills to provide expert care to a selected population of women's health clients. Prerequisites: NURS 60085.

**60073 Women's Health Clinical Nurse Specialist Capstone (4)**

Focus on synthesizing women's health clinical nurse specialist knowledge and skills to provide expert care to a selected population of women's health clients. Prerequisite: NURS 60031 and 60032 and 60033 and 60431.

**60074 Pediatric Nurse Practitioner Capstone (4)**

Focus on synthesizing pediatric nurse practitioner knowledge and skills to provide expert care to a selected population of pediatric clients.

**60075 Pediatric Clinical Nurse Specialist Capstone (4)**

Focus on synthesizing clinical nurse specialist knowledge and skills to provide expert care to a selected population of pediatric clients. Prerequisite: NURS 60031 and 60032 and 60033.

**60080 Health Care of the Well Woman (3)**

Development of foundational basis for competent clinical practice of women within a healthcare setting. Clinical assessment skills are emphasized and the student is expected to concentrate efforts in attainment of and safe execution of skills pertinent to the care of the well woman. The course also focuses on the study of selected theories and models used by professional nurses when working with adolescent and adult women. Emphasis is placed on fertility control and is provided through individually planned experiences with faculty who are serving as primary care providers in family planning and gynecology care settings. The course will also emphasize the coordination of care needed within the clinical setting through the diagnostic, planning and evaluational components pertinent to clinical practice. Prerequisites: NURS 60101.

**60081 Health Care of the Reproductive Age Woman (3)**

Application of nursing theory, practice and research by advanced practice nurses in the promotion of health and wellness of women during the reproductive years. The emphasis is on normal pregnancy focusing on prevention and health promotion as well as the management of deviations from normal. Clinical assessment skills, including diagnosis, nursing intervention, treatment, and evaluation, will be emphasized and the student is expected to

concentrate efforts in attainment and safe execution of skills pertinent to the women during the reproductive years. Prerequisites: NURS 60041 and 60080.

**60082 Geriatric Primary Care I (5)**

Major clinical course which provides the opportunity for the development of those cognitive and perceptual skills needed to provide primary health care services to older adults in ambulatory care settings. Prerequisites: NURS 60041 and 60206; BSCI 60446.

**60083 Geriatric Primary Care II (5)**

Focus on chronic and acute health problems common in geriatric patients. Provides the opportunity for the development of cognitive, and perceptual skills needed to provide primary health care services to older adults in ambulatory and community care settings. Prerequisites: NURS 60082 and 60192.

**60085 Primary Health Care of Women (3)**

Further development of a foundational basis for competent clinical practice within a healthcare setting. Introduces the student to the practice of primary health care of women including perimenopausal and menopausal women, including principles of growth and development, health promotion, disease prevention and management of common acute and chronic health problems. Emphasis is placed on the biological, psychological and social cultural aspects of care. Pathophysiology, assessment and diagnostic techniques specific to the acute and common problems are stressed. Nursing strategies related to health problems used to enhance, maintain, and restore health are emphasized. This course will also emphasize the coordination of care

needed within the clinical setting, collaboration and use of community resources. Prerequisites: NURS 60081

**60092 NP Summer Practicum (2)**

The purpose of this course is to provide an individualized, goal-directed clinical practicum primary care. This course addresses professional issues of Nurse Practitioners. In addition, the student will participate in the care of culture diverse population through the Migrant Farmer Camp. Prerequisite: NURS 60041 and 60042.

**60101 Theoretical Basis for Nursing Practice (3)**

This course will be used to study concepts and theories common to all specialty areas of nursing. It provides a firm basis for advanced clinical nursing practice. Progress in theory development for nursing practice is addressed. Prerequisite: graduate standing in nursing.

**60192 Adult Geriatric NP Practicum (2)**

Course provides individualized, goal directed clinical practicum in geriatric primary care. Addresses professional issues of geriatric nurse practitioners. Additionally, student will participate in comprehensive geriatric assessment setting. Prerequisites: NURS 60082.

**60199 Thesis (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. IP grading; IP permissible. Prerequisite: NURS 60401, NURS 60001 or NURS 60021 and special approval.

**60201 Theories for Advanced Psychiatric Mental Health Nursing (3)**

Major theories of historical importance to psychiatric nursing are studied. Significant relationships between various theories are examined and related to psychiatric nursing practice. Only students admitted to the Psychiatric Mental Health NP or CNS concentrations or post-master's certificate programs may register. Prerequisite: Nursing (NURS) major.

**60204 Health Care Issues of Aging: Nursing Concepts (3)**

This course focuses on the theory and research related to biophysiological, psychosocial, cultural, ethical, developmental, environmental and policy factors related to aging and health. Students will gain a basic understanding of the multiple factors related to the functional health patterns among an older adult population; this knowledge can be applied by professionals in research and practice with aging adults in a variety of health care settings. The course is open to graduate students in any discipline and is required for students in the nursing of the adult graduate program who choose to specialize in the care of elderly clients.

**60205 Introduction to Applied Epidemiology (1)**

Seminar on basic epidemiology principles, concepts and procedures for disease surveillance and investigation.

**60206 Ambulatory Diagnostics for Advanced Nursing Practice (2)**

Experience for the nurse practitioner student in selection, safe use and interpretation of basic laboratory testing, screening and examinations for client management in primary care. Pre- or Corequisite: NURS 60041.

**60208 Theory for Advanced Psychiatric Mental Health Nursing, Child and Adolescent Focus (3)**

Major theories of historical importance to psychiatric nursing are studied. Significant relationships between various theories are examined and related to psychiatric nursing practice with children, adolescents, and their families. Prerequisite: Nursing (NURS) major.

**60292 Adult Geriatric Primary Care NP Role Practicum (4)**

An individually planned practicum in the final semester in which students test the effectiveness of various strategies inherent within the role of advanced practice nurse practitioner, and to demonstrate leadership through role implementation under the guidance of an experience preceptor. Prerequisites: NURS 60041 and 60082 and 60083 and 60192.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: NURS 60199.

**60303 Gerontological CNS I (4)**

Introduces students to the Clinical Nurse Specialist (CNS) role in a specialty area with an emphasis on the patient sphere. Students have the opportunity to apply and evaluate theory and research in advanced assessment, pathophysiological processes, evidence-based interventions for disease management, and principles of teaching and coaching across the continuum of gerontological healthcare settings. The focus of the course is on acquiring advanced knowledge in patient diagnosis, management and treatment in care of the older adult. Emphasis is on identification and management of

symptoms, functional problems, social, psychological, legal, economic issues facing the older adult and risk behaviors commonly encountered in practice. Students select benchmarks and apply clinical measurement strategies in identifying achievement of clinical outcomes. Course comprises three didactic contact hours and seven clinical hours per week. Pre- or corequisites: NURS 60101 and 60041 and 60045 and 60204.

**60304 Gerontology Clinical Nurse Specialist II (4)**

Provides the Clinical Nurse Specialist student the opportunity to apply previously acquired knowledge in advanced gerontological nursing practice in the patient and nurse spheres with special emphasis on the organizational sphere. The focus of the course is on role transition, clinical expertise, application and synthesis. Course comprises two didactic content hours and 14 clinical hours per week. Pre- or corequisite: NURS 60303.

**60305 Gerontological Clinical Nurse Specialist III (4)**

Provides the clinical nurse specialist student the opportunity to apply previously acquired knowledge in advanced gerontological nursing practice in the patient and nurse spheres with special emphasis on the organizational sphere. The focus of the course is on role transition, clinical expertise, application and synthesis. Course comprises two didactic content hours and 14 clinical hours per week. Pre- or corequisite: NURS 60304.

**60313 Analysis of Health Care Organizations (3)**

An in-depth look at organizational theory and behavior in hospitals and health agencies. Current factions in the environment organizational design health policy and their

influence on patient care processes will be studied.

**60314 Internship in Health Care Management (3)**

Provides an opportunity for students to gain practical experience and be exposed to processes of strategy creation, policy development, decision-making and patient care with the health care industry. IP permissible. Prerequisite: NURS 65092; and BAD 64041 and 64271.

**60332 Clinical Specialization in Psychiatric Mental Health Nursing (4)**

Practicum to test out role of clinical specialist in psychiatric mental health nursing in a setting selected by student and preceptor. Prerequisite: NURS 65592.

**60342 Clinical Specialist Adult Nursing (6)**

Individually planned practicum in which the student performs in the role of the clinical specialist with a specified population of adult clients. Prerequisite: NURS 60053 and NURS 60056.

**60352 Clinical Specialization in Parent-Child Nursing (4)**

The course is an individually planned practicum in which the student performs in the role of clinical specialist with a specified population of parents or children of the student's selection. Prerequisite: NURS 60331.

**60392 Internship in Health and Public Administration (3)**

Provides an opportunity for students to gain practical experience and be exposed to processes of public decisionmaking and policy development within the health care sector. Prerequisite: Enrollment in M.S.N./M.P.A. program.

**60401 Nursing Research Methods I (2)**

Introduces the research process. Elements of research design and methods for both quantitative and qualitative approaches are examined. Students develop a researchable problem for nursing practice for both approaches. Prerequisite: NURS 60101.

**60402 Nursing Research Methods II (3)**

Extends understanding of quantitative and qualitative research methods in knowledge development and application for nursing practice. Students develop approaches to data analysis to address nursing research problems, examine research utilization and evidence-based practice models, and critique research reports. Prerequisite: NURS 60401.

**60432 Adult Nurse Practitioner Role Practicum (4)**

An individually planned practicum in the final semester in which students perform in the role of a nurse practitioner in a selected multidisciplinary primary care context under guidance of an experienced preceptor. IP permissible.

**60441 Pharmacology for Advanced Practice Nurses (3)**

A survey course addressing the fundamental principles of medication prescribing and administration necessary for nurses in advanced practice. Course addresses pharmacodynamics, pharmacokinetics and pharmacotherapeutics.

**60442 Psychopharmacology for Advanced Healthcare Practice (2)**

Psychopharmacology for advanced practice addresses the fundamental principles of psychopharmacology necessary for health practitioners in advanced adult/child/geriatric

psychiatric practice; includes basic pharmacokinetics and pharmacodynamic principles. Prerequisite: special approval.

**60450 Ethical and Cultural Issues for Health Professionals (2)**

This course will examine varying cultural perspectives, including one's own and critical ethical issues faced by today's health care providers.

**60451 Health Policy and Delivery Systems for Health Care Professionals (2)**

This course, focused on health care policy, financing and delivery systems, is one of a two-course graduate seminar series. Students explore the political and scientific basis of health policy formulation, primarily in the U.S., and public/private funding arrangements. "State of science" assignments concern current research findings related to health care delivery systems, and health policy and outcomes. Economic drivers, and public and private funding for health services, are examined in all topic areas throughout the course. Students will research a health policy or health care delivery issue of interest.

**60492 Family Primary Care NP Role Practicum: OB/GYN and Pediatrics (5)**

The content of the course is organized around common health issues, needs and problems of women and children. Additional focus will be given to the health promotion and disease detection as related to pediatric primary care, preconception, pregnancy, and post-partum patients. Prerequisite: NURS 60043.

**60496 Independent Study (1-4)**

Readings and/or research supervised by a member of graduate faculty. Provides students the opportunity to

explore a content area in depth. IP permissible. Prerequisite: special approval.

**60498 Research (1-15)**

Research or individual investigation supervised by a graduate faculty member. Repeat registration permitted. Maximum of 9 credit hours may apply toward degree. Prerequisite: special approval.

**60592 Nursing Education Practicum (4)**

Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week. Working with a nursing master teacher this course prepares the student with practical experience in curriculum design, implementation and instruction with nursing students. Prerequisites: NURS 60601 and 60602 and 60604.

**60601 Nursing Curriculum and Instruction in Higher Education (3)**

Web-based course for master's-enrolled or master's-prepared nurses to teach content and facilitate advanced critical thinking in the areas of curriculum planning, design, development, implementation and evaluation in higher education nursing. Prerequisite: approval of instructor.

**60602 Roles and Evaluation for Nursing Curriculums in Higher Education (3)**

Web-based course for master's-enrolled or master's-prepared nurses focusing on content, theory, history and techniques of evaluation for nursing educational programs. Faculty and student roles, and legal and ethical issues are also addressed. Prerequisite: NURS 60601.

**60604 Nursing Health Care Clinical Issues in a Specialty Area (2)**

This 2 hour course focuses on the theory, research, and evidenced-

based practice related to biophysiological, psychosocial, cultural, ethical, developmental, environmental and policy factors of a specialty clinical area in nursing practice. Students gain a basic understanding of the multiple factors related to healthcare issues among individuals in the specialty population. Prerequisite: NURS 60601. Pre- or corequisite: NURS 60602.

**60692 Practicum in Nursing Higher Education Curriculum (3)**  
Curriculum design, implementation and teaching experience with nursing master teacher in higher education undergraduate or graduate nursing courses. Prerequisite: NURS 60601 and 60602.

**60792 Practicum in Acute Care Nurse Practitioner Role (2-6)**  
Individually planned practicum in which student performs in advanced practice role with an acutely ill population of clients of student's choice in a selected acute care setting. Students have an opportunity to test effectiveness of various strategies and demonstrate leadership under guidance of an experienced clinical preceptor and NP faculty preceptor.

**61003 Neurobiology and Psychopharmacology of Major Psychiatric Disorders (3)**  
Focuses on the neurobiology of severe and persistent psychiatric disorders. Addresses fundamental principles underlying psychopharmacology related to these disorders.

**61005 Nursing Informatics (3)**  
Explores the role of informatics in professional nursing practice. Students learn basic information skills including telecommunication and management of nursing data, and apply these skills with clinical nursing health data. Prerequisite: special approval.

**61006 Neurobiology and Psychopharmacology of Major Psychiatric Disorders, Child and Adolescent Focus (3)**  
Focuses on the neurobiology of severe and persistent psychiatric disorders of children and adolescents. Addresses fundamental principles underlying psychopharmacology related to these disorders.

**61021 Advanced Pediatric Assessment and Health Promotion (5)**  
Clinical course, initial Pediatric Nurse Practitioner course emphasizes primary care of infants, children and teens with a holistic approach to well child development, health promotion, illness prevention, and management of developmental challenges with a family centered approach. Assessment & lab on first 4 Thursdays of semester. Pre/corequisite: NURS 60101.

**61022 Primary Care Acutely Ill Child (5)**  
Clinical course emphasizing development of competent clinical advanced practice nursing skills for, and comprehensive knowledge of, acute physical and psychosocial illnesses in children including diagnoses, management and evaluation in primary care. Clinical is in acute primary care setting. Prerequisite: NURS 61021 and pre/corequisite: NURS 60045.

**61023 Care of Acutely Ill Children (5)**  
Clinical course focuses on the complex physical and psychosocial needs of hospitalized acutely ill children and their families. Analysis and synthesis of holistic assessment serve as conceptual framework for advanced practice nursing interventions. Clinical sites are individualized. Prerequisite: NURS 61021 and pre/corequisite: NURS

60045.

**61024 Care of Chronically Ill Children (4)**  
Clinical course emphasizing development of competent clinical advanced practice nursing skills for, and comprehensive knowledge of, chronic illnesses/conditions in children, including diagnoses, management and evaluation in primary care. Concepts of chronic illness and interventions for families are explored. Clinical sites focus on chronic illnesses. Prerequisite: NURS 61022.

**61095 Special Topics in Nursing (2-6)**  
Topics in nursing such as holistic health, selected pathological alterations and recent developments. May include clinical practicum. May be repeated three times with approval for a maximum of 12 credits applied toward the degree. Prerequisite: Graduate standing in nursing.

**62021 Advanced Pediatric Assessment and Health Promotion for Psychiatric Mental Health (3)**  
Initial pediatric course emphasizes primary care of infants, children and teens with a holistic approach to well child development, health promotion, illness prevention and management of developmental challenges with a family centered approach. Assessment lab on first 4 Thursdays of the semester. Pre- or Corequisite: NURS 60101.

**64492 Psychiatric Mental Health Nursing Practicum I (2)**  
Clinical course emphasizes mental health assessment and individual and group psychotherapy with the chronically and acutely mentally ill. Pre- or co requisite: NURS 60001 or 60004; and NURS 61003 or 61006; and NURS 60206.

**65092 Practicum: Nursing and Health Care Management I (3-5)**

The required first of two capstone management practicums in a health care agency for nurses. Students integrate and apply management knowledge and are coached in professional roles by established nursing and health care management leaders. IP permissible. Prior to registration for this course, students must complete 18-25 credit hours of combined NURS, BAD and PADM courses before taking this course. Prerequisite: special approval.

**65192 Practicum: Nursing and Health Care Management II (3-5)**

The second of two capstone management practicums in a health care agency for nurses. Students further integrate and apply management knowledge and their professional roles, coached by established nursing and health care management leaders. One credit hour managerial topics. Prerequisite: NURS 65092.

**65592 Psychiatric Mental Health Nursing Practicum II (2)**

Practicum continues to build knowledge and skills in mental health assessment, individual psychotherapy, and psychopharmacologic therapies with individuals experiencing chronic or acute mental illness. Learning group, family, and couples psychotherapy is emphasized. Group supervision is provided. Pre- or Corequisite: NURS 60002 or 60005.

**70600 Clinical Scholar I (3)**

Focus is transitioning to the clinical scholar leader role within an identified area of advanced nursing practice. Emphasis is placed on the epistemology underlying advanced nursing practice and the integration of theoretical frameworks and evidence-based practice principles in achieving optimal health outcomes for individuals and

groups. Comprised of 2 didactic content hours per week and a clinical practicum of 7 hours per week.

**70602 Synthesis and Application of Evidence for Advanced Nursing Practice (3)**

Focus is on the concepts, models, and methods for implementation of evidence-based nursing practice at both individual clinician and system levels. Competencies for the identification, analysis, synthesis, and application of evidence relevant to nursing and health care practice are developed. Factors that facilitate and impede implementing and sustaining evidence-based practice are considered. Students learn skills necessary for identification of clinical problems in advanced practice nursing and promoting adoption and implementation of evidence-based solutions to promote patient health outcomes. Prerequisite: NURS 70727.

**70610 Clinical Scholar II (3)**

Translating and integrating theory and scientific evidence into the clinical work of the advanced practice clinical scholar is the focus of this second seminar course. Culturally-aware approaches are developed to resolve a healthcare issue using theoretic models and principles of evidence-based practice to design innovative interventions. Comprised of 2 didactic content hours per week and a clinical practicum of 14 hours per week. Prerequisite: NURS 70600.

**70640 Advanced Leadership in Healthcare (3)**

Advanced competencies of the doctoral-prepared advanced practice nurse for transformational leadership in healthcare to improve patient and population health outcomes are addressed. Five key leadership competencies including creating and leading change; self-knowledge; strategic vision; interpersonal communication; and organizational effectiveness are presented with examples and case studies. Transcending themes of ethics, research, interprofessional collaboration, creativity, and

insuring accountability are addressed throughout the course. Students conduct a self-assessment, and develop and implement individualized action plans for advanced competency in interprofessional healthcare leadership.

**70692 Clinical Scholar Practicum (3)**

Synthesis of components of clinical scholar leader role comprises this practicum. Students apply advanced leadership and clinical scholarship skills to developing and evaluating approaches to healthcare problems in a practicum setting. Prerequisite: NURS 70610.

**70705 Foundations of Research Methods in Nursing (3)**

Examines diverse paradigms and research methods as the foundation for scholarly inquiry in nursing knowledge development. Students begin building a foundation for focused intellectual inquiry in a substantive area of nursing. Pre- or corequisite: NURS 70710.

**70710 History and Philosophy of Nursing Science (3)**

This course examines the nature of metaphysics and epistemology and the influence of contemporary Eastern and Western philosophies on the developing epistemology of disciplinary nursing knowledge. Akron 8200:810. Prerequisite: special approval.

**70715 Theory Construction and Development in Nursing (3)**

This course examines strategies for theory development including logical, empirical, deductive and inductive approaches. Emphasis will be on elements and strategies used in theory building. Akron 8200:815. Prerequisite: NURS 70710 and special approval.

**70720 Introduction to Nursing Knowledge Domains (3)**

Introductory seminar analyzing selected theoretical and methodological approaches to



knowledge development in nursing. Emphasis on critical analysis of knowledge in areas of special interest. Akron 8200:820

Prerequisite: Doctoral standing or special approval from department. Pre- or corequisite: NURS 70715.

**70725 Quantitative Research Methods in Nursing (3)**

Extends students' knowledge of the theory and practice of quantitative research in nursing. Focus is on the major types of quantitative design in nursing science. Theoretical and procedural issues related to design, measurement and data management with a substantive area of nursing inquiry are emphasized. Akron 8200:825. Pre- or corequisites: NURS 70705 and 70727.

**70727 Advanced Health Care Statistics I (3)**

Comprehension of bivariate and multivariate descriptive and inferential statistics designed for nurse researchers. Applications to research problems in nursing. Akron 8200:827. Prerequisite: Master's-level statistics, including descriptive and inferential statistics.

**70730 Qualitative Research Methods in Nursing (3)**

Selected qualitative research methods used to study nursing phenomena. Philosophical bases; design, data collection and analysis; evaluation of rigor; and ethical issues for major qualitative methods will be analyzed with regard to nursing phenomena. Akron 8200:830.

**70735 Nursing and Health Care Policy (3)**

Critical examination of theories and processes of formulating state/national health care policy. Focus on health issues, the political and legislative process, and contemporary policy dilemmas. Akron 8200: 835. Prerequisite:

special approval.

**70737 Advanced Health Care Statistics II (3)**

Application of bivariate and multivariate descriptive and inferential statistics to research problems in nursing. Akron: 8200:837. Prerequisite: NURS 70727; and approval from department.

**70745 Advanced Nursing Research: Quantitative Methods (3)**

Focuses on integration and application of components of quantitative research design in nursing through application of multivariate design principles to existing data sets. Advanced topics in methods, statistics and measurement are addressed. Prerequisites: NURS 70725 and 70727 pre- or corequisite: NURS 70737.

**70746 Advanced Methods for Nursing Research: Measurement in Nursing (3)**

Theories and concepts related to measurement and nursing research including techniques for construction, testing and refining of instruments with assessment of reliability and validity. Akron 8200:846. Prerequisite: NURS 70720 and 70725.

**70747 Advanced Methods for Nursing Research: Application of Qualitative Methods (3)**

Theory, data collection and analysis used in qualitative nursing research with a focus on phenomenology, grounded theory and ethnography. Akron 8200:847. Prerequisite: NURS 70720 and 70725 70730.

**70748 Advanced Methods for Nursing Research: Program Evaluation in Nursing (3)**

Seminar and lecture: Analysis of theories and models of program

evaluation and their relationships to designs, processes, techniques and outcomes in nursing-related evaluations. Akron 8200:848. Prerequisite: NURS 70720.

**70749 Advanced Methods for Nursing Research: Grant Development and Funding (3)**

Advanced seminar on critical analysis of proposal and grant development, funding, peer review and advocacy process with emphasis on the development of a grant proposal. Akron 8200:849. Prerequisite: NURS 70720.

**70792 Field Experience in Nursing (1-12)**

Individual enrollment in field experience settings related to nursing. Akron 8200:892.

**70795 Special Topics in Nursing (2-6)**

Study of important topics in nursing practice, research or the profession. Offering in response to existing interests and opportunities. Akron 8200:895.

**70796 Individual Investigation in Nursing (1-3)**

Individual enrollment for independent study in nursing carried out by student under supervision of a doctoral faculty member. Akron 8200:896.

**70798 Research in Nursing (1-15)**

Research carried out by a student under faculty supervision. In-depth inquiry should result in a paper or appropriate product. Akron 8200:898.

**76199 Capstone Project I (2-6)**

(Repeatable for for a maximum of 6 credit hours) Faculty and preceptor-directed project that contributes to nursing practice knowledge. Culminates in an oral defense and a publishable manuscript. Students register for a total of 6 hours, 2 to 6 hours in a single semester,

distributed over three semesters if desired. S/U grading; IP permissible. Prerequisite: NURS 70600.

**76299 Capstone Project II (1-3)**  
(Repeatable for credit) Capstone project students must continue registration until all degree requirements are met. S/U grading; IP permissible. Prerequisite: NURS 76199.

**80199 Dissertation I (15)**  
Independent doctoral research for the dissertation under faculty supervision. Registration of at least two semesters is required, continuing until completion of 30 credit hours. Akron 8200:899. Prerequisite: Admission to doctoral candidacy.

**80299 Dissertation II (1 or 15)**  
Continuing registration of research, after initial 30 hours of NURS 80199 completed.

**86091 Variable Content Seminar in Nursing: Nursing Science I (3)**  
Seminar on in-depth analysis, synthesis and evaluation of one substantive area within nursing and related disciplines focusing on the generation and dissemination of nursing knowledge. Akron 8200:840. Prerequisite: NURS 70720.

**86191 Variable Content Seminar in Nursing: Nursing Science I: Family Theories and Nursing Research (3)**  
Seminar on in-depth analysis, synthesis and evaluation of one substantive area within nursing and related disciplines focusing on the generation and dissemination of nursing knowledge. Akron 8200:840. Prerequisite: NURS 70720.

**86291 Variable Content Seminar in Nursing: Nursing Science I: Nursing and Women's Health (3)**  
Seminar: Analysis, synthesis and evaluation of theories and research in women's health across the life span as consumers and providers in nursing and health care. Akron 8200:840. Prerequisite: NURS 70720.

**86391 Variable Content Seminar in Nursing: Nursing Science I: Stress, Coping and Social Support and Nursing Research (3)**  
Seminar: Analysis, synthesis and evaluation of stress, coping and social-support literature in nursing and related disciplines, focusing on the generation and dissemination of knowledge. Akron 8200:840. Prerequisite: NURS 70720.

**87091 Variable Content Seminar in Nursing: Nursing Science II (3)**  
In-depth focused analysis and synthesis of a substantive area relevant to the student's specific research focus, culminating in a written product for dissemination. Akron 8200:850. Prerequisite: NURS 86091.

## **Graduate Nutrition (NUTR)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Nutrition (NUTR)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**51093 Variable Title Workshop in Nutrition (1-3)**  
Workshop setting dealing with a topic or topics in the field of nutrition and dietetics. S/U grading.

**51095 Special Topics in Nutrition (1-4)**  
Discussion of a major topic within a specific field of nutrition and dietetics.

**51096 Individual Investigation in Nutrition (1-3)**  
Independent study in the area of nutrition and dietetics.

**53013 Experimental Methods in Nutrition(3)**  
Student gain experience in research methods related to nutrition and dietetics, principles of experimental design, data analysis and techniques of scientific writing are applied. Prerequisite: nutrition and dietetics (NUTR) major.

**53016 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.

**53512 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. Prerequisites: nutrition and dietetics (NUTR) major.

**53513 Advanced Nutrition II (3)**  
Mechanisms through which nutrients meet human biological needs. Fundamental concepts underlying human nutrition. Evaluation and interpretation of research findings. Prerequisites: nutrition and dietetics (NUTR) major.

**53514 Clinical Dietetics (4)**

Application of the principles of normal nutrition to diet and disease effect of pathological conditions on nutritional needs. Also included is a lab which provides the opportunity for students to engage in case studies and nutritional assessments. Prerequisites: nutrition and dietetics (NUTR) major.

**53515 Community Nutrition (3)**

Introduction to nutrition problems and practices in the community. Study of legislation, philosophies, management, nutrition education processes, food assistance programs and agencies affecting nutritional care. Includes an experiential laboratory component with focuses in planning, implementation, evaluation and outcomes in nutrition education. Prerequisites: nutrition and dietetics (NUTR) major.

**53518 Maternal and Child Nutrition (3)**

Nutrition requirements and problems: pregnancy, lactation, childhood and adolescence. Prerequisites: nutrition and dietetics (NUTR) major.

**53520 Nutrition for Fitness (3)**

This course will explore the relationship between nutrition, health and exercise. Dietary change of improved health and fitness will be discussed as well as the impact of diet and exercise on body composition and weight.

**53521 Food Choices for Prescribed Dietary Modification (2)**

Adapting normal diet to accommodate prescribed food restriction. Provides introductory overview of dietary modifications commonly encountered by the elderly. Course not open to students in the Nutrition and Dietetics concentration. Prerequisites: NUTR 23511.

**53532 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; and nutrition and dietetics (NUTR) major.

**61018 Techniques of Research (3)**

Introduction to the types of research and methods of data collection applied to a project of student's choice.

**61091 Seminar in Nutrition (2-3)**

Seminar dealing with topics in the field of nutrition and dietetics.

**61098 Research (1-15)**

Research for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if school approves. Repeat registration permitted. IP permissible.

**61198 Master's Project (2-6)**

Completion and successful defense of a master's project. Master's project students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**63199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**63299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U

grading; IP permissible. Prerequisite: HDFS 61199.

**63519 Advanced Study of Micronutrients (3)**

Intake, digestion and absorption of nutrients. Prerequisite: nutrition and dietetics (NUTR) major.

**63520 Macronutrient Nutrition (3)**

Metabolic utilization of macronutrients for body processes. Prerequisite: nutrition and dietetics (NUTR) major.

**63521 Nutrition and Disease: Clinical Applications (3)**

Recent trends and concepts in research and practice of therapeutic dietetics. Prerequisites: nutrition and dietetics (NUTR) major.

**63523 Nutrition and Gerontology (3)**

Biochemistry of aging process and the interrelation of gerontology and nutrition. Prerequisite: NUTR 23511.

**63524 Perspective on Prevention and Practice in Community Nutrition (3)**

Explores the relationship between nutritional epidemiology and the research, policies, and programs for successful treatment and prevention of nutrition related disease in the U.S. Also focuses on the behavioral and learning theories used in successful nutrition interventions and grant writing to sustain community programs.

**63525 Dietetic Practice: Community (1)**

Discussion focusing on nutrition care in the community setting. Evaluation and interpretation of the scientific literature. Prerequisite: special approval.

**63526 Dietetic Practice: Management (1)**

Discussion focusing on the management of food and nutrition services. Evaluation and interpretation of the scientific literature. Prerequisite: special approval.

**63527 Dietetic Practice: Clinical (1)**

Discussion focusing on nutrition care in the acute practice setting. Evaluation and interpretation of the scientific literature. Prerequisite: special approval.

**63591 Nutrition Seminar (1-3)**

Evaluation and interpretation of recent literature in an area of nutrition. Topic selected will be indicated in the Schedule of Classes each semester offered.

**63592 Dietetic Internship (1-4)**

Supervised practice component of dietetic internship. S/U grading. Prerequisite: special approval.

**Public Administration (PADM)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Public Administration (PADM)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**60038 Managerial Accounting for Public Administration (3)**

(Cross-listed with POL 70038). Managerial uses of accounting information for planning and control. Emphasis on decision-making in public sector and role of information in making rational choices.

**60195 Special Topics in Public Administration (3)**

(Cross-listed with POL 70195) Various topics offered by the Master of Public Administration Program. Prerequisite: special approval.

**60198 Research (2-15)**

(Cross-listed with POL 70198) Research or individual investigation for master's-level graduate students. Credits earned may be applied toward meeting requirements if department approves. Prerequisite: special approval.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

**60299 Thesis II (2)**

Thesis student must continue registration each semester until all degree requirements are met. S/U grading. IP permissible. Prerequisite: PADM 60199.

**60370 Public Management Concepts and Practices (3)**

(Cross-listed with POL 70370) Introductory course for all M.P.A. students. Focus is on "macrolevel" understanding of government agencies: institutional context, agency-environment linkages, internal dynamics, role in public policy.

**60372 Administrative Theory and Behavior (3)**

(Cross-listed with POL 70372) Behavioral, bureaucratic, neoclassical and contemporary theories of organization and management are reviewed in an examination of the environment of public agency managers. Prerequisite: PADM 60370 or POL 70370.

**60373 Public Budgeting (3)**

(Cross-listed with POL 70373) Study of politics, theories, practices and techniques of public budgeting and financing. Budgeting includes

process of preparation, adoption and execution of operating, and capital budgets.

**60374 Public Financial Management (3)**

(Cross-listed with POL 70374) Advanced study of the functions of the local government financial management agency and how these functions enhance the productivity and decision-making capacity of the organization.

**60375 Public Personnel Administration (3)**

(Cross-listed with POL 70375) Study of public personnel systems, including underlying system values and current problems, with emphasis on skill development and understanding of techniques for public personnel managers.

**60376 Labor Management Relations in the Public Sector (3)**

(Cross-listed with POL 70376) This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes. Prerequisite: PADM 60375.

**60378 Municipal Management and Administration (3)**

(Cross-listed with POL 70378) Detailed analysis of metropolitan complex. Emphasis given to administrative, political, fiscal and legal problems in governing cities.

**60379 Program Evaluation I (3)**

(Cross-listed with POL 70379) Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and, specifically, the techniques utilized under different evaluation formats.

**60381 Methods in Public Administration (3)**

(Cross-listed with POL 70381) This course is a graduate-level introduction to statistical methods and their use in public administration.

**60382 Seminar in Public Administration (3)**

(Cross-listed with POL 70382)  
Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution, and literature bearing on the problems. Prerequisite: special approval.

**60384 Public Agency Management (3)**

(Cross-listed with POL 70384) This course is designed to acquaint advanced master's and doctoral candidates majoring in public administration with the operation and management of bureaucratic organizations.

**60385 Advanced Studies Seminar in Public Administration (3)**

(Cross-listed with POL 70385) This seminar is designed at each offering to meet the individualized needs of advanced doctoral candidates majoring in public administration. Prerequisite: special approval.

**60392 Internship-Public Administration (2-6)**

(Cross-listed with POL 70392)  
Provides an opportunity for students to gain practical experience and be exposed to processes of public decisionmaking and policy development. Prerequisite: special approval.

**60470 Critical Issues in Public Administration (3)**

(Cross-listed with POL 70470)  
Course deals with basic questions of value and ethics associated with public service roles in a democratic society and with major contemporary issues in the field. Prerequisite: PADM 6/70370 and 6/70372.

**60471 NonProfit Law (3)**

(Cross-listed with POL 70471)  
Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status; basic requirements for establishing/operating nonprofit organizations specifically in Ohio.

**60472 NonProfit Board-Executive Relations (3)**

(Cross-listed with POL 70472) Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities, and governance structures.

**60473 Governmental Financial Analysis (3)**

(Cross-listed with POL 70473) A laboratory in techniques of governmental financial analysis. Course focuses on how to analyze current financial position to develop financial plans for upcoming years.

**60474 Health Care Reimbursement (3)**

(Cross-listed with POL 70474) This is an introductory course to familiarize students with private and public sector reimbursement operations and regulations in the United States health care industry.

**60477 Non-Profit Finance Resource Development (3)**

(Cross-listed with POL 70477)  
Successful strategies for fundraising and resource development for nonprofit organizations. Students will be exposed to fundraising in practice and will write a resource development plan.

**60492 Capstone Seminar (3)**

(Cross-listed with POL 70492)  
Capstone course required for all MPA students. Students will complete an approved, written project that is analytical and research-based. Prerequisite: special approval.

**60574 Strategic Planning (3)**

(Cross-listed with POL 70574)  
Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.

**Graduate Public Health (PH)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**60172 Culminating Experience Seminar (3)**

Students prepare a final portfolio and seminar presentation integrating theory and practice. S/U grading; IP permissible. Corequisite: PH 60192.

**60192 Practicum Experience (3)**

Observational and participation in public health activities of a public health agency, hospital or other approved organization. The student completes the field experience with joint supervision from the university and approved organization or agency. S/U grading; IP permissible. Corequisite: PH 60172.

**80199 Dissertation I (15)**

Registration for two semesters required, first semester dissertation work begins and continues until completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation I (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until degree requirements are met. S/U grading; IP permissible.

## **Graduate Philosophy (PHIL)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

### **50005 Health Care Ethics**

Ethical problems in health care will be critically assessed. Student will consider how these specific ethical problems illuminate the ethical enterprise.

### **50093 Variable Title Workshop in Philosophy (1-6)** S/U grading.

### **51010 Problems in the Philosophy of Religion (3)**

Philosophical examination of issues and problems presented by various writers in philosophy of religion.

### **51015 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.

### **51020 Social Philosophy (3)**

Philosophical examination of theories of society as proposed by various writers.

### **51025 Philosophy of Law (3)**

Critical examination of nature and function of law.

### **51030 Ethical Theories and Practices (3)**

Intensive and in-depth study of some dimensions of philosophic traditions in ethics.

### **51035 Philosophy of Science (3)**

Analysis of methodological problems in scientific disciplines.

### **51040 Theories of Knowledge (3)**

Study of various problems in philosophic theories of knowledge, with some emphasis on current philosophic challenges to such theories.

### **51042 Topics in Metaphysics (3)**

A philosophical examination of at least three issues in metaphysics with an emphasis on the historical debates that give rise to them and on their contemporary contexts.

### **51045 Metalogic (3)**

Consideration of various metatheorems including soundness and completeness of propositional and predicate calculus, undecidability of predicate calculus and incompleteness of the theory of arithmetic.

### **51048 Metaethics (3)**

Examination of the semantics, ontology and modes of justification employed in ethical theories.

### **51050 Philosophical Analysis (3)**

Study of major problems in analytic philosophy and subsequent philosophical analysis.

### **51055 Phenomenology (3)**

Investigation of phenomenological movement, its methods, and the scope and course of its applications, in philosophy and other disciplines.

### **51060 Pragmatism (3)**

Detailed reading from classical American pragmatists along with some attention to later interpretations and exploration of current reappraisals and developments.

### **51065 Plato (3)**

Detailed examination of selected Platonic dialogues, with some attention to Plato's development and dismissal of certain pre-Socratic (and Socratic) themes.

### **51070 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.

### **51076 Continental Philosophy (3)**

Investigation of some figure, issue or theme in continental philosophy from Descartes to present.

### **51077 British and American Philosophy (3)**

Detailed investigation of a figure or issue in British or American philosophy.

### **51080 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. Prerequisite: philosophy (PHIL) or art (ART) major.

### **51085 Philosophy and Cultural Theory (3)**

A discussion of the philosophical bases of aspects of cultural theory such as postcolonialism and the negritude movement.

### **51086 Philosophy of Expression (3)**

Concentrated study of expression through philosophy of literature, of music, of body, of language and of symbols.

### **59995 Special Topics (3)**

When content varies, may be repeated for credit.

### **59996 Individual Investigation (1-3)**

S/U grading; IP permissible. Repeat registration permitted with departmental approval. Prerequisite: departmental approval before registration.

### **60191 Graduate Seminar (3-6)**

Intensive primary-source reading and critical appreciation of the significant works of one or more philosophical figures or concerning one or more philosophical issues.



**60201 Seminar: History of Philosophy (3)**

Intensive primary-source reading and critical appreciation of the significant works of one or more historical philosophers (other than Plato or Aristotle) or one or more historical philosophical issues.

**61050 Philosophy of Language (3)**

(Cross-listed with ENG 6/75050) Critical examination of nature and function of language, especially in relation to mental function and development.

**61055 Semeiotics (3)**

(Cross-listed with ENG 6/75057 and MCLS 60020) An introduction to contemporary theories of semeiotics and to the application of those theories to linguistics, literature, translation and technology.

**61056 Hermeneutics (3)**

Critical appreciation of the theories and practices of interpretation comprehended according to certain classical, current, and emergent philosophic styles and traditions.

**61075 Logical Theory (3)**

Intensive study of issues concerning conceptual framework or presuppositions of logic; or challenges or alternatives to classical logic or to logic itself.

**61084 Research Ethics (3)**

Exploration of methodologies, the treatment of human and animal research subjects, responsible authorship practices and the role of the scientist in the moral community.

**69194 College Teaching of Philosophy (1)**

Discussion, critique and development of concepts to guide the teaching of philosophy including concepts of procedures and tactics for planning, pacing, presenting, representing and reviewing philosophic texts, figures and issues. S/U grading; IP permissible.

**69199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a

single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: departmental approval before registration.

**69299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PHIL 69199.

**69995 Special Topics (3)**

Selected topics in philosophy. Repeat registration permitted. Prerequisite: special approval.

**69997 Colloquium (1)**

Student, faculty and invited guests participate in conferencelike contexts to present and discuss issues of current philosophic interest. Repeat registration permitted. S/U grading; IP permissible.

**69998 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned may be applied toward meeting degree requirements. Repeat registration permitted with departmental approval. S/U grading; IP permissible. Prerequisite: departmental approval before registration.

**Graduate Physics (PHY)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50020 Advanced Physics Lab (2)**

Advanced experiments in classical and modern physics are selected to accompany and to supplement

graduate-level physics courses. Repeat registration permitted.

**50093 Variable Title Workshop in Physics (1-6)**

Workshops individually designed to provide instruction and training in specific areas of physics. S/U grading. Prerequisite: special approval.

**50095/70095 Special Topics (1-3)**

Topic announced when scheduled. Prerequisite: special approval.

**50096 Individual Investigation (1-3)**

Individual projects for physics graduate students. IP permissible.

**50195/70195 Special Topics (1-3)**

Topic announced when scheduled. Prerequisite: special approval.

**52500 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.

**52512 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 2 hours, laboratory 4 hours weekly.

**54291 Planetarium Operation and Programming (1)**

Planetarium operation, advantages and limitations. Slides, technamation, special effects and programs for K-12 grades, public and special groups. Prerequisite: special approval.

**54600 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: special approval.

**54802 Astrophysics (3)**

Galactic structure, stellar formation and evolution, origin of the elements (or nucleosynthesis), nonoptical astronomies and a description of various cosmological theories. Prerequisite: MATH 12003.

**55201 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.

**55301 Thermal Physics (3)**

An introduction to thermodynamics and statistical mechanics, with applications in material science and engineering. Prerequisite: PHY 36001.

**55401 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.

**55403 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.

**55501 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. Prerequisites: PHY 55201.

**56101 Quantum and Atomic Physics (4)**

Bohr theory, wave mechanics, wave packets. Application to barriers, oscillators, hydrogen atoms, multielectron atoms, X-rays, molecular spectra. At level of Eisberg-Resnick's Quantum Physics. Prerequisite: special approval.

**56301 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- or corequisite: MATH 32052.

**56401 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.

**60091/80091 Physics Seminar (1)**

Discussion of current literature or of original research in physics. Participation by students, faculty and guests. S/U grading; IP permissible.

**60093/70093 Variable Title Workshop in Physics (1-6)**

Workshops individually designed to provide instruction and training in specific areas of physics. S/U grading.

**60094/70094 College Teaching of Physics (1-3)**

Methodology of teaching in a university, college or junior college. Includes observation of kinds of teaching and practice teaching. S/U grading; IP permissible.

**60098 Research (1-15)**

Research or individual investigation. Credits earned may be applied toward meeting degree requirements if department approves. Repeat registration permitted. IP permissible.

**60199 Thesis I (2-6)**

Thesis students must register for total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Approval of advisor.

**60295/70295 Advanced Topics (1-3)**

Selected special topics of current research interest. IP permissible. Prerequisite: special approval.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PHY 60199.

**60395/70395 Advanced Topics (1-3)**

Selected special topics of current research interest. Prerequisite: special approval.

**64101/74101 Advanced Problem Solving in Physics (3)**

This course imparts advanced problem-solving skills not acquired in regular courses. Examples from four basic areas of physics (classical mechanics, electricity and magnetism, quantum mechanics and statistical physics) will be emphasized. Graduate letter grades and S/U grading. Prerequisite: PHY 6/75101 and 6/75203 and 6/76161 and 6/75301.

**65101/75101 Classical Mechanics (3)**

Lagrange's equations, variational principles, two-body central force problems, rigid body motion, Hamilton's equations, canonical transformations, Hamilton-Jacobi theory, small oscillations. Prerequisite: special approval.

**65203/75203 Classical Electrodynamics I (3)**

Introduction to electrostatics, boundary value problems, multipoles, electrostatics of macroscopic media, magnetostatics, time-varying fields, Maxwell's equations, conservation laws. Prerequisite: special approval.

**65204/75204 Classical Electrodynamics II (3)**

Plane electromagnetic waves, simple radiating systems, scattering, special theory of relativity, relativistic dynamics, radiation of moving charges, Bremsstrahlung. Prerequisite: PHY 6/75203.

**65301/75301 Statistical Mechanics I (4)**

An introduction to statistical mechanics, including classical and quantum statistics. Derives thermodynamic quantities from a statistical viewpoint.

**66161/76161 Quantum Mechanics I (3)**

Fundamental concepts of nonrelativistic quantum mechanics. Solution of simple one-dimensional problems. Abstract Hilbert-space description. Matrix representations. Quantum dynamics. Extension to three dimensions. Spin and orbital angular momentum. Prerequisite: special approval.

**66162/76162 Quantum Mechanics II (3)**

Angular momentum theory. Symmetries and conservation laws. Application of approximation methods to realistic problems. Systems of identical particles. Scattering theory. Relativistic single-particle wave equations. Prerequisite: PHY 6/76161.

**66201/76201 Particle Physics (3)**

Discussion of particle detectors, invariance principles and conservation laws, fundamental interactions, quark model of hadrons, basic concepts of field theory, the Standard Model and selected topics of current interest. Prerequisite: PHY 6/76162.

**66302/76302 Nuclear Physics (3)**

Theory of nuclear processes including properties of nuclear quantum states, two body forces, nuclear structure and models, nuclear reactions and nuclear radiation physics. Prerequisite: PHY 56101.

**66401/76401 Solid State Physics I (3)**

Crystalline state, with emphasis on wave propagation, zone and band theory, phonons. Applications to electrical and thermal conductivities, specific heats, optical, dielectric and magnetic properties. Prerequisite: PHY 56101 or 6/76161.

**66402/76402 Solid State Physics II (3)**

Covers several topics, including conduction in metals, dielectric and ferroelectric properties, the origin of magnetism, phenomenological and BCS descriptions of superconductivity, elastic theory and semiconductor physics. Prerequisite: PHY 6/76401 and 6/76161.

**68401/78401 Liquid Crystal Physics (3)**

The molecular structure and properties of liquid crystals and their role in biological systems and industrial applications. Prerequisite: Graduate standing in physics (PHY) or chemical physics (CPHY).

**75302 Statistical Mechanics II (3)**

Classical and quantum statistics with emphasis on Fermi and Bose systems. Introduction to approximate methods including cluster expansions and virial coefficients. Applications to critical phenomena. Prerequisite: PHY 6/75301.

**76163 Quantum Mechanics III (3)**

Second quantization and field theory formalism are developed for the many-particle system. Topics include the electron gas and nuclear matter. Prerequisite: PHY 6/76162.

**76303 Advanced Nuclear Physics (3)**

Advanced concepts and theories of nuclear interactions. Topics include the nucleon-nucleon interaction, nuclear structure, reactions, nuclear matter and strong interactions of elementary particles. Prerequisite: PHY 6/76302 and 76163.

**76403 Advanced Condensed Matter Physics (3)**

Advanced theories of solids, fluids, superfluids, magnetic, ferroelectric and liquid crystal systems and the experimental methods that probe them. Prerequisite: PHY 6/76402.

**80097 Physics Colloquium (1)**

Presentation by invited speakers of research and other topics on graduate level followed by discussion period. Regular attendance of all physics majors expected. Three or more meetings each semester as arranged. S/U grading; IP permissible.

**80098 Research (1-15)**

Research or individual investigation for doctoral students who have not yet passed their candidacy exams. Credit earned may be applied toward the degree if the department approves. IP permissible. Prerequisite: admission to doctoral study.

**80199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: admission to candidacy for doctoral degree and special approval.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PHY 80199.

**88191 Chemical Physics Seminar (1)**

Discussions of current literature or of original research in chemical physics. Participation by students, faculty and guests. S/U grading; IP permissible.

**Graduate Political Science (POL)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**51191 Seminar: Problems in American Government (3)**

For graduate students outside of Political Science who wish to take 40000-level American government courses for graduate credit. Students must meet all of the requirements of the 40000 level plus do additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 hours in any one semester. Instructor and course content may vary from semester to semester. IP permissible.

**51591 Seminar: Problems in International Relations/Comparative Government (3)**

For graduate students outside of Political Science who wish to take 40000-level international/comparative government courses for graduate credit. Students must meet all of the requirements of the 40000 level plus do additional work as agreed upon by the instructor. May be taken more than once but never for more than 3 hours in any one semester. Instructor and course content may vary from semester to semester. IP permissible.

**51391 Seminar: Problems in Public Policy (3)**

For graduate students outside of Political Science who wish to take 40000-level public policy courses for graduate credit. Students must meet all of the requirements of the 40000 level plus do additional work as agreed upon by the instructor. May be taken more than once but never more than 3 hours in any one semester. Instructor and course content may vary from semester to semester. IP permissible.

**60002/70002 Approaches to Public Policy (3)**

This course introduces students to the philosophy of science and scientific inquiry within the context of the social sciences and presents a broad survey of leading paradigms and debates within the field of public policy.

**60003/70003 Policy Methods I (3)**

This course provides a selective introduction to basic quantitative methods for the analysis of public policy dealing with basic descriptive and inferential statistics and an introduction to qualitative techniques.

**60004/70004 Public Policy Methods II (3)**

This course introduces students to multivariate quantitative techniques appropriate for the analysis of public policy and incorporates a broad array of advanced qualitative analysis.

**60006/70006 Foundations of Public Policy (3)**

This course covers the development of policy studies as a field. As a broad survey, this course introduces general concepts and debates with applications within each field of specialization.

**60101/70101 Proseminar in American Politics and Policy (3)**

This course provides a broad survey of the policy-making process in the U.S. government. Coverage includes formal government structures, as well as informal networks of private groups that seek

to influence public policy at the national level.

**60102/70102 American Policy Process (3)**

This course emphasizes the politics of the policy process. Among topics covered are theories of policy formulation, implementation and evaluation. Prerequisite: POL 60101 or 60301.

**60103/70103 Congress, The Presidency and the Courts (3)**

Focuses on the three branches of the U.S. government, specifically Congress, the presidency and the judiciary. Coverage includes institutional rules and procedures that shape the incentives of these political actors and ultimately policy outcomes. Prerequisite: POL 60101.

**60104/70104 Cultural Context of American Politics (3)**

This course examines the ideological foundations upon which the public policy process in the United States is constructed. Particular attention is given to the often conflicting societal attitudes toward the U.S. government and its conduct of public policy. Prerequisite: POL 60101.

**60105/70105 Federalism and State Policy Making (3)**

This course covers the theory and practice of federalism with emphasis on its consequences for policy outcomes. Students also examine the transformation of the policy role of state governments in recent years. Prerequisite: POL 60101.

**60106/70106 Urban Policy and Politics (3)**

Urban public policy takes place within the context of suburbanization and metropolitan sprawl. Issues raised in this course include poverty, race and the role of business in local policy-making. Prerequisite: POL 60101 or 60301.

**60107/70107 Conflict and Consensus in the Public Sector (3)**

This course introduces students to public sector conflict resolution

processes such as environmental mediation, regulatory-negotiation, collaborative problem-solving and consensus-building. Of particular interest is the utility of these processes in specific arenas of public policy. Prerequisite: POL 60101 or 60301 or 60701.

**60191/70191 Seminar in American Politics and Policy (3)**  
Seminar on current and important topics in American Politics and Policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**60301/70301 Proseminar in Policy Analysis and Administration (3)**  
This course covers the systematic procedures for analysis of policy problems. Special attention is paid to economic concepts such as cost-benefit analysis and the role of multiple values in the policy process.

**60302/70302 Bureaucracy and the Policy Making Process (3)**  
This course provides students with a theoretical and practical understanding of the bureaucracy as a unit of analysis in policy studies. Of particular interest is the interaction of the bureaucracy with other policy-making institutions and non-state actors. Prerequisite: POL 60301.

**60303/70303 Regulatory Policy (3)**  
This course examines the politics of regulatory policy from a variety of theoretical perspectives. These theories are applied to several domains of regulation, primarily those relating to public finance. Prerequisite: POL 60301.

**60304/70304 Analytic Techniques of Policy-Making (3)**  
This course covers the concepts, techniques and conventions for assessing economic efficiency when this is one of the social and political goals relevant to public policy-makers. Students are introduced to theories of cost-benefit analysis as they pertain to public policy. Prerequisite: POL 60301.

**60305/70305 State and Local Government Financial Analysis (3)**  
This course provides an overview of the state and local sectors of government. Primary attention is paid to the financial role of the sub-national governments with regard to taxing and spending policies. Prerequisite: POL 60301.

**60306/70306 Leadership and Public Policy (3)**  
This course exposes students to the role of leadership issues in shaping contemporary public policy. Students are introduced to contending theories of policy leadership in specific domains such as health care, the environment and neighborhood governance. Prerequisite: POL 60301.

**60307/70307 Issues in American Public Policy (3)**  
The primary purpose of this course is to apply the conceptual tools of public policy analysis to current issues facing the U.S. government. Students are introduced to the major policy debates regarding these issues with reference to the historical, political-economic and cultural context in which they occur. Prerequisite: POL 60301.

**60391/70391 Seminar in Policy Analysis and Administration (3)**  
Seminar on current and important topics in Policy Analysis and Administration. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**60501/70501 Proseminar in Transnational and Comparative Politics and Policy (3)**  
This course introduces students to the primary concepts, theories and subfields of comparative and transnational politics. Each field of study is reviewed along with the primary subfields of analysis.

**60502/70502 Global Governance (3)**  
This course examines issues, problems and debates regarding

global governance in the contemporary world. Of primary interest is the array of actors in this process, including nation-states, intergovernmental organizations and nongovernmental organizations. Prerequisite: POL 60501.

**60503/70503 Foreign Policy Analysis (3)**  
This course provides an overview of the diverse analytic traditions and issues that relate to the study of foreign policy. Areas of coverage include theories of foreign policy decisionmaking, levels of analysis and policy domains. Prerequisite: POL 60501.

**60504/70504 U.S. Foreign Policy (3)**  
This course examines the dilemmas facing the U.S. government as it confronts a rapidly changing international system. Historical patterns are considered along with current issues regarding the formulation and conduct of U.S. foreign policy. Prerequisite: POL 60501 or 60101.

**60505/70505 Comparative Public Policy and Administration (3)**  
This course examines theoretical and substantive issues in comparative public policy and public administration. The various frameworks, approaches and schools of thought are reviewed in each area of study. Prerequisite: POL 60501 or 60301.

**60506/70506 International Political Economy and Development Policy (3)**  
This course is designed to provide a variety of perspectives with which to make sense of the structure of the international economy and the policy options available to governments seeking to encourage domestic economic development. Prerequisite: POL 60501.

**60507/70507 Conflict Transformation and Reconciliation (3)**  
Cross-cultural analysis of transition from mass violence to justice and from protracted conflict to

democracy. Subjects of study include truth and reconciliation commissions, criminal tribunals, apologies, reparations and other aids to conflict transformation. Prerequisite: POL 60501 or 60701.

**60591/75091 Seminar in Transnational and Comparative Politics and Policy (3)**

Seminar on current and important topics in Transnational and Comparative Politics and Policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**60701/70701 Proseminar in Issues in Contemporary Justice (3)**

(Cross-listed with JUS 66762) A policy analysis of current issues in the legislative, policing, judicial and correctional components of the justice system.

**60703/70703 Community and Domestic Violence (3)**

(Cross-listed with JUS 66763) This course explores the causes and implications of violence in our homes and communities. Conflict management strategies and techniques are reviewed to see how they have served as policy solutions, as agents of change or in maintaining the status quo. Prerequisite: POL 60701.

**60704/70704 Theories of Crime and Delinquency (3)**

Examination of major theoretical concepts in criminology that have been utilized to explain criminal behavior and juvenile delinquency. Includes discussion of social/policy implications.

**60791/70791 Seminar in Justice Politics and Policy (3)**

Seminar on current and important topics in Justice Politics and Policy. Subject matter varies depending on the emerging issue. This course may be repeated for credit with departmental approval.

**61094/71094 College Teaching in Political Science (1)**

Staff training and experience in college teaching; colloquia on professional ethics and responsibilities of political scientists. Maximum of 4 hours applicable toward Ph.D. requirements (with Graduate Studies Committee approval).

**61098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements if department approves and a letter grade is given. Repeat registration permitted. IP permissible.

**61199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**61299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: POL 61199.

**69091/79091 Seminar: Public Policy Methods (3)**

This course focuses on select topics in public policy methods, particularly qualitative methods, Q-methodology or advanced applied policy analysis. More than one seminar may be offered. Repeat registration permitted.

**69095 Special Topics in Political Science and Public Policy (3)**

Topics course. Prerequisite: special approval.

**70038 Managerial Accounting for Public Administration (3)**

(Cross-listed with PADM 60038). Managerial uses of accounting information for planning and control. Emphasis on decision-making in public sector and role of information in making rational choices.

**70195 Special Topics in Public Administration (3)**

(Cross-listed with PADM 60195) Various topics offered by the Master of Public Administration Program. Prerequisite: special approval.

**70198 Research (2-15)**

(Cross-listed with PADM 60198) Research or individual investigation for master's-level graduate students. Credits earned may be applied toward meeting requirements if department approves. Prerequisite: special approval.

**70370 Public Management Concepts and Practices (3)**

(Cross-listed with PADM 60370) Introductory course for all M.P.A. students. Focus is on "macrolevel" understanding of government agencies: institutional context, agency-environment linkages, internal dynamics, role in public policy.

**70372 Administrative Theory and Behavior (3)**

(Cross-listed with PADM 60372) Behavioral, bureaucratic, neoclassical and contemporary theories of organization and management are reviewed in an examination of the environment of public agency managers. Prerequisite: PADM 60370 or POL 70370.

**70373 Public Budgeting (3)**

(Cross-listed with PADM 60373) Study of politics, theories, practices and techniques of public budgeting and financing. Budgeting includes process of preparation, adoption and execution of operating, and capital budgets.

**70374 Public Financial Management (3)**

(Cross-listed with PADM 60374) Advanced study of the functions of the local government financial management agency and how these functions enhance the productivity and decision-making capacity of the organization.

**70375 Public Personnel Administration (3)**

(Cross-listed with PADM 60375)  
Study of public personnel systems, including underlying system values and current problems, with emphasis on skill development and understanding of techniques for public personnel managers.

**70376 Labor Management Relations in the Public Sector (3)**

(Cross-listed with PADM 60376)  
This course focuses on issues peculiar to public sector labor relations, including the impact of public employee unionism on traditional merit systems and personnel policy decision processes. Prerequisite: PADM 60375.

**70378 Municipal Management and Administration (3)**

(Cross-listed with PADM 60378) Detailed analysis of metropolitan complex. Emphasis given to administrative, political, fiscal and legal problems in governing cities.

**70379 Program Evaluation I (3)**

(Cross-listed with PADM 60379)  
Introduction to evaluation of government programs. Emphasis on familiarizing students with the theory and, specifically, the techniques utilized under different evaluation formats.

**70381 Methods in Public Administration (3)**

(Cross-listed with PADM 60381)  
This course is a graduate-level introduction to statistical methods and their use in public administration.

**70382 Seminar in Public Administration (3)**

(Cross-listed with PADM 60382)  
Study of selected problem areas in public service organizations with emphasis on understanding the factors contributing to them, their solution, and literature bearing on the problems. Prerequisite: special approval.

**70384 Public Agency Management (3)**

(Cross-listed with PADM 60384)  
This course is designed to acquaint advanced master's and doctoral candidates majoring in public administration with the operation and management of bureaucratic organizations.

**70385 Advanced Studies Seminar in Public Administration (3)**

(Cross-listed with PADM 60385)  
This seminar is designed at each offering to meet the individualized needs of advanced doctoral candidates majoring in public administration. Prerequisite: special approval.

**70392 Internship-Public Adminsitration (2-6)**

(Cross-listed with PADM 60392)  
Provides an opportunity for students to gain practical experience and be exposed to processes of public decisionmaking and policy development. Prerequisite: special approval.

**70470 Critical Issues in Public Administration (3)**

(Cross-listed with PADM 60470)  
Course deals with basic questions of value and ethics associated with public service roles in a democratic society and with major contemporary issues in the field. Prerequisite: PADM 6/70370 and 6/70372.

**70471 NonProfit Law (3)**

(Cross-listed with PADM 60471)  
Introduction to legal issues for nonprofit organizations in the United States, including types of IRS tax-exempt status; basic requirements for establishing/operating nonprofit organizations specifically in Ohio.

**70472 NonProfit Board-Executive Relations (3)**

(Cross-listed with PADM 60472)  
Key aspects of effective nonprofit governance, major roles of nonprofit board members and their responsibilities, and governance structures.

**70473 Governmental Financial Analysis (3)**

(Cross-listed with PADM 60473) A laboratory in techniques of governmental financial analysis. Course focuses on how to analyze current financial position to develop financial plans for upcoming years.

**70474 Health Care Reimbursement (3)**

(Cross-listed with PADM 60474)  
This is an introductory course to familiarize students with private and public sector reimbursement operations and regulations in the United States health care industry.

**70477 Non-Profit Finance Resource Development (3)**

(Cross-listed with PADM 60477)  
Successful strategies for fundraising and resource development for nonprofit organizations. Students will be exposed to fundraising in practice and will write a resource development plan.

**70492 Capstone Seminar (3)**

(Cross-listed with PADM 60492)  
Capstone course required for all MPA students. Students will complete an approved, written project that is analytical and research-based. Prerequisite: special approval.

**70574 Strategic Planning (3)**

(Cross-listed with PADM 60574)  
Introduction to the practice of strategic planning as it relates to policy design and implementation by public and nonprofit organizations.

**70702 Justice Institutions (3)**

(Cross-listed with JUS 66770) This course introduces students to various institutions related to the U.S. criminal justice system. Students examine techniques for conducting institutional analysis and apply these techniques to law enforcement, judicial and correctional institutions.

**70705 Comparative Justice Institutions and Policy (3)**

(Cross-listed with JUS 66774)  
Cross-cultural analysis of crime and

the justice institutions/justice policies of various countries. The developmental backgrounds, structure and functioning of the systems are compared. Important issues in international justice are considered.

**70706 Victimology (3)**

(Cross-listed with JUS 66772)  
Patterns of victim-offender relationship. Role of victims in the justice studies process. Problems of adjustment to victimization and compensating the victim.

**70707 Law, Justice and Society (3)**

(Cross-listed with JUS 66761)  
Course reviews the origins, structure and functioning of law in relation to social context and process. Topics to be covered include theories of law and society, law as a form of social control and the use of law and legal institutions to address societal problems.

**79095 Special Topics in Political Science and Public Policy (3)**

Topics course. Prerequisite: special approval.

**81098 Research (1-15)**

Research or individual investigation for doctoral students who have not yet passed their candidacy examination. Credits may be applied toward degree if department approves and if letter grade given. Repeat registration permitted.

**81199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, and the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. IP permissible. Prerequisite: Admission to candidacy for doctoral degree. S/U grading; IP permissible.

**81299 Dissertation II (1 or 15)**

Continuing registration required for doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U

grading; IP permissible.  
Prerequisite: POL 81199.

**Graduate Psychology (PSYC)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**50974 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 states of the science.

**51993 Variable Title Workshop in Psychology (1-6)**

Variable topics offered as need arises to train in specific area of field. Specific topics will be announced in Schedule of Classes. S/U grading. Prerequisite: special approval.

**60110/70110 Introduction to Psychopathology: Child (3)**

Introduction to psychopathology from a developmental perspective. Covers models of classification and specific disorders of childhood. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**60170/70170 Introduction to Psychopathology: Adult (3)**

An examination of the etiology, symptomology and theoretical models of adult psychopathology. Prerequisite: Graduate/doctoral standing in psychology.

**60171/70171 Family Interaction and Psychopathology (3)**

Introduction to the study of family interaction as it relates to the etiology and maintenance of psychopathology. Theory, methodology and research relevant to specific behavioral disorders will be covered. Prerequisite: PSYC 6/70170 and graduate/doctoral standing in psychology (PSYC).

**60192/70192 Integration Practicum (1-3)**

Integration of assessment, psychopathology and psychotherapy coursework. Emphasis on learning how to conceptualize cases in general, and from differing theoretical perspectives. IP permissible. Prerequisite: PSYC 6/70292 and 6/70792 and graduate/doctoral standing in psychology (PSYC).

**60272/70272 Introduction to Psychological Assessment (3)**

Introduction to psychological assessment as a process for solving important clinical problems. Theoretical, methodological and research issues are emphasized. Students will also become familiar with major psychological tests. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**60273/70273 Advanced Psychological Assessment: Adult (3)**

Examines psychodiagnosis within a context of "personality-as-a-coherent-whole." Emphasizes an ideographic approach with a theoretical framework, which organizes and gives meaning to observations. Prerequisite: PSYC 6/70272 and graduate/doctoral standing in psychology (PSYC).

**60274/70274 Advanced Psychological Assessment: Child (3)**

Interviewing, developmental and intellectual assessments, personality evaluations, behavioral assessments, and assessment of special child populations. Emphasis on the rationale and integration of research relevant to appropriate use and interpretation. Prerequisite: PSYC



6/70272 and 6/70292; and graduate/doctorsal standing in psychology (PSYC).

**60275/70275 Behavioral Assessment (3)**

Considers behavioral assessment from an empirical as well as an applied perspective. Intended for persons familiar with general assessment, psychopathology and psychotherapy issues. Prerequisite: PSYC 6/70272 and 6/70292; and graduate/doctorsal standing in psychology (PSYC).

**60276/70276 Neuropsychological Assessment (3)**

Introduction to the conceptual foundations of neuropsychological assessment and practical knowledge in assessment procedures, methods of interpretation and differential diagnosis. Prerequisite: PSYC 6/70272 and 6/70292; and graduate/doctorsal standing in psychology (PSYC).

**60292/70292 Psychological Assessment Practicum (1-3)**

Applied aspects of material presented in PSYC 6/70272. Emphasis on administering, scoring and interpreting major assessment tools. S/U grading; IP permissible. Prerequisite: Concurrent enrollment in PSYC 6/70272 and graduate/doctorsal standing in psychology (PSYC).

**60313/70313 Community Psychology (3)**

Introduction to conceptualizations and findings in community psychology. Special emphasis on the application of community approaches in various settings. Prerequisite: Graduate/doctorsal standing in psychology (PSYC).

**60324/70324 Professional Issues and Ethics in Clinical Psychology (3)**

Review of professional concerns in the field, including training, ethics, client rights, economics, legal issues, relationship to other professions, and professional organization and policy.

Prerequisite: Graduate/doctorsal standing in psychology (PSYC).

**60325/70325 Forensic Psychology (3)**

Consideration of the interface of psychology and the law with focus on activities in which clinical psychologists are likely to participate in relation to the legal system. Prerequisite: Graduate/doctorsal standing in psychology (PSYC).

**60326/70326 Clinical Aspects of Health Psychology (3)**

Consideration of psychosocial influences on health status that are relevant to the clinician. Attention is given to interventions on both individual and community levels. Emphasis on approaches to prevention, treatment and public policy. Prerequisite: Graduate/doctorsal standing in psychology (PSYC).

**60371/70371 Introduction to Psychological Therapy (3)**

Introduction to psychotherapy with special emphasis on psychodynamic and phenomenological approaches with theory, technique and major research findings considered. Prerequisite: PSYC 6/70170 and 6/71260 and graduate/doctorsal standing in psychology (PSYC).

**60372/70372 Psychotherapy for Specific Disorders (3)**

Review of conceptual and empirical literature relating to psychotherapeutic treatment of various behavior disorders. A variety of theoretical orientations will be included. Prerequisite: PSYC 6/70371 and 6/70792 and graduate/doctorsal standing in psychology (PSYC).

**60373/70373 Family Therapy (3)**

Consideration of major theories, approaches and research in family therapy. Practical experience in conducting family therapy through supervision and discussion of ongoing cases. Prerequisite: PSYC 6/70371 and 6/70792 and graduate/doctorsal standing in psychology (PSYC).

**60374/70374 Group Psychotherapy (3)**

Introduction to group psychotherapy with emphasis on theories, techniques and research findings. Prerequisite: PSYC 6/70371 and 6/70792 and graduate/doctorsal standing in psychology (PSYC).

**60375/70375 Cognitive Behavior Therapy (3)**

Empirical and clinical aspects of cognitive behavioral interventions. Intended for students familiar with basic psychotherapy, assessment and psychopathology issues. Prerequisite: PSYC 6/70371 and 6/70292 and graduate/doctorsal standing in psychology (PSYC).

**60376/70376 Child Psychotherapy (3)**

Consideration of various aspects of child psychotherapy, including general issues, traditional therapies, behavior and cognitive-behavior therapies, and child therapy research. Emphasis on integration of theory, technique and research. Prerequisite: PSYC 6/70371 and 6/70792 and graduate/doctorsal standing in psychology (PSYC).

**60395/70395 Advanced Topics-Clinical Psychology (1-6)\***

Advanced-level consideration of selected content areas in assessment, psychotherapy, psychopathology, professional issues and community psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: special approval.

**60453/70453 Introduction to Cognitive Psychology (3)**

Information-processing approaches to human thought. Focus on processes used to transform, store, manipulate and retrieve sensory input. Topics include attention, pattern recognition, memory and language. Prerequisite: Graduate/doctorsal standing in psychology (PSYC).

**60610/70610 Psychology of Adulthood and Aging (3)**

Examines psychological theory and research related to the psychology

of adulthood through old age. Surveys current cognitive, social, developmental and clinical work on later life. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**60792/70792 Psychotherapy Practicum (1-3)**

Basic training in applied aspects of psychotherapy. Through didactic and experiential methods students learn basic listening and communication skills that are then applied to specific techniques, situations and issues. IP permissible. Prerequisite: PSYC 6/70292, concurrent enrollment in PSYC 6/70371 and graduate/doctoral standing in psychology (PSYC).

**60895/70895 Advanced Topics-Experimental Psychology (1-6)\***

Advanced-level consideration of selected content areas in experimental psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: special approval.

**60950/70950 History and Contemporary Systems (3)**

Relationships between historical antecedents and the major contemporary systems and theories of psychology. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**61054/71054 Learning and Conditioning (3)**

Introduction to basic conditioning processes. Emphasis on Pavlovian and instrumental learning phenomena, particularly as these are exemplified in animal models of behavior. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**61133/71133 Sensation and Perception (3)**

Introduction to basic sensory and perceptual processes of vision and audition. Prerequisite: Graduate/doctoral standing in

**61199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a

single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: special approval.

**61260/71260 Theories of Personality (3)**

Consideration of major theoretical orientations including psychoanalysis, phenomenology and those stressing learning. Emphasis on principal concepts; deals less with research methods and findings. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**61299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PSYC 61199.

**61350/71350 Physiological Psychology (3)**

Neurophysiological, neurochemical and neuroanatomical factors in the control of cognitive processes, motivation and behavior. Emphasis is on the broad coverage of major topics in the field. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**61496 Individual Investigation (3)**

Intensive pursuit of a subject matter beyond normal course coverage with possibility of associated research. IP permissible. Prerequisite: special approval

**61498 Research (1-15)\***

Research or individual investigation for master's-level graduate students. Credits may be applied toward meeting degree requirements if department approves and if letter grade or "S" is given. IP permissible. Prerequisite: special approval.

**61548/71548 Psychology of Gender and Minorities (3)**

This course will be an in-depth study of the methodology and current research and theory on gender and minorities. The course will be concerned with gender differences and inter- and intra-

cultural differences and similarities. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**61580/71580 Social Psychology (3)**

Introduction to empirical research and theories on the psychological processes related to interpersonal and small group behavior. Prerequisite: Graduate standing in psychology (PSYC).

**61651/71651 Quantitative Statistical Analysis I (3)**

Review of univariate statistics and an introduction to using bivariate and multivariate statistics. Part one of a two semester sequence on statistical analysis. Prerequisite: Graduate standing in psychology (PSYC) and special approval.

**61654/71654 Quantitative Statistical Analysis II (3)**

Multivariate statistics for classifying individuals and variables. Additional topics include power/effect size and handling missing data. Part two of a two-semester sequence on statistical analysis. Prerequisite: PSYC 61651 or 71651; and graduate standing in psychology (PSYC).

**61684/71684 Experimental Design and Method (3)**

Critical analysis of research design in psychology. Advanced topics in univariate and multivariate data analyses. Prerequisite: PSYC 6/71651 and graduate standing in psychology (PSYC).

**61685/71685 Clinical Research Methods (3)**

Consideration of research methodologies relevant to clinical psychology with emphasis on strengths and weaknesses of research designs and issues related to collection and evaluation of data. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**61894/71894 College Teaching of Psychology (3)**

Training and experience in college teaching. May be repeated to total of 6 hours. Prerequisite:

Graduate/doctoral standing in psychology (PSYC).

**61993/71993 Variable Title Workshop in Psychology (1-6)**

Variable topic offered as need arises to train in a particular area of the field. Specific topics will be announced in the Schedule of Classes. S/U grading. Prerequisite: Graduate/doctoral standing in psychology (PSYC).

**62392/72392 Clinical Practicum (1-3)\***

Beginning practicum in Psychological Clinic involving selection, administration and evaluation of tests of ability and personality. IP permissible. Prerequisite: special approval.

**62492/72492 Advanced Practicum (1-3)**

Intensified experience in the diagnosis and treatment of specific disorders from the scientist-practitioner model. IP permissible. Prerequisite: PSYC 6/70192, 6/70292 and 6/70792 and graduate/doctoral standing in psychology (PSYC).

**70392 Supervised Clinical Experience (1-3)\***

Post-practicum, psychological service provision and/or research activities in institution or agency under supervision of licensed psychologist and by arrangement of Department of Psychology. S/U grading; IP permissible. Prerequisite: PSYC 6/72392 and special approval.

**70413 Cognitive Neuropsychology (3)**

The effect of brain injury and anomalous neurological development on cognitive skills such as language, perception and memory are explored. Prerequisite: Doctoral standing in psychology (PSYC).

**70436 Psycholinguistics (3)**

Study of relation between language and its speaker/listeners. Special emphasis placed on sentence and prose comprehension and language

acquisition. Prerequisite: Doctoral standing in psychology (PSYC).

**70468 Memory and Cognition (3)**

Critical review of contemporary research and theory in memory and cognition. Prerequisite: PSYC 6/70453 and doctoral standing in psychology (PSYC).

**70485 Reading Processes(3)**

Analysis of basic psychological processes involved in reading with emphasis on models of the skilled reader and of learning to read. Current research is surveyed. Prerequisite: Doctoral standing in psychology (PSYC).

**70604 Cognitive Development (3)**

Examination of theories and research concerning changes in memory, perception, thought and language over the life span. Prerequisite: Doctoral standing in psychology (PSYC).

**70615 Social and Personality Development (3)**

Examination of theories and research in social development, with a focus on how personal relationships influence personality development. Prerequisite: Doctoral standing in psychology (PSYC).

**71004 Animal Memory Processes (3)**

Examination of basic phenomena and principles of memory, as exemplified by research with animals and humans. Consideration of behavioral and biological processes in memory functioning. Prerequisite: Doctoral standing in psychology (PSYC).

**71013 Drugs and Behavior (3)**

General principles of drug action with special attention to drugs used in the treatment of psychopathologies. Focus will be on neural mechanisms of action, addiction and tolerance, and drug interactions with learning and cognitive processes. Prerequisite:

**71046 Connectionism and Neural Networks (3)**

General principles of connectionist

modeling of memory, cognition and other psychological processes. Focus will be on the logic of connectionist models, plausibility of models and strategies for implementation of models. Prerequisite: PSYC 6/71350, 6/70453 or 6/71054, 6/71651 and special approval.

**71307 Psychobiological Aspects of Health Psychology (3)**

An introduction to non-neural aspects of psychobiology, with emphasis on psychoendocrinology, psychoimmunology and the psychobiologic aspects of disease. Prerequisite: Doctoral standing in psychology (PSYC).

**71498 Selected Literature Review (3)**

Comprehensive literature survey and review prepared by graduate student in area of interest. May be repeated to total of 6 hours. Prerequisite: Doctoral standing in psychology (PSYC).

**71506 Social Cognition (3)**

Explores both historical and current developments in cognitive social psychology including theory and research, social attention and memory, judgment and decision-making, cognitive views of the self, and current debates regarding the relationship. Prerequisite: Doctoral standing in psychology (PSYC).

**71507 Psychosocial Aspects of Health Psychology (3)**

Examines concepts of disease and their implications for health. Emphasizes psychosocial stress in disease, etiology and psychological factors influencing illness recovery. Prerequisite: Doctoral standing in psychology (PSYC).

**71513 Psychology of Alcohol Abuse (3)**

Critical review of theories and empirical research on the use and abuse of alcohol. Prerequisite: Doctoral standing in psychology (PSYC).

**71656 Factor Analysis (3)**

Survey of major types of factor

analytic methods employed in psychology. Prerequisite: PSYC 6/71654 and doctoral standing in psychology (PSYC).

**71657 Field Research Methods and Program Evaluation (3)**

Focus is on research designs used in field research and on threats to valid causal inference. Measurement and analytical issues are also examined. Prerequisite: Doctoral standing in psychology (PSYC).

**71688 Computer Applications in Psychology (3)**

Programming applications in psychology. Prerequisite: PSYC 6/71651 and 6/71654 and doctoral standing in psychology (PSYC).

**80391 Seminar in Clinical Psychology (3)\***

Seminar devoted to detailed study of various topics in field of clinical psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: special approval.

**80491 Seminar in Cognitive Psychology (3)\***

Seminar on current research in cognitive psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: special approval.

**80691 Seminar in Child and Developmental Psychology (3)\***

Seminar on current research in child and developmental psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: special approval.

**81091 Seminar in Learning and Biopsychology (3)\***

Seminar on current research in learning and biopsychology. Specific topics will be announced in the Schedule of Classes. Prerequisite: special approval.

**81199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required, the first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U

grading; IP permissible. Prerequisite: special approval.

**81299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: PSYC 81199.

**81498 Research (1-15)\***

Research or individual investigation for doctoral students. Credits may be applied toward degree if department approves and letter grade or "S" is given. IP permissible. Prerequisite: special approval.

**81591 Seminar in Personality and Social Psychology (3)\***

Seminar on current research in areas of social psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: Doctoral standing in psychology (PSYC).

**81691 Seminar in Quantitative Methods (3)\***

Seminar on applications of quantitative methods within various content areas of psychology. Specific topics will be announced in Schedule of Classes. Prerequisite: special approval.

*\*Repeat registration permitted.*

**Graduate Rehabilitation Counseling and Training (RHAB)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Rehabilitation Counseling and Training (RHAB)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply*

*and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**57712/77712 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.

**60093/70093 Variable Title Workshop in Rehabilitation Counseling (1-4)**

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

**60199 Thesis I (2-6)**

Thesis students must register each semester until all degree requirements are met. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: RHAB 60199.

**67723/77723 Medical Information for Rehabilitation Counselors (3)**

Study of the physical impact of disease or injury on individuals; available medical and restorative resources; skills in interpreting medical reports and rehabilitation planning. Special fee: \$5 per semester.

**67725/77725 Psychosocial Impact of Disability (3)**

Introduction to major concepts in rehabilitation regarding the impact of disability on the individual, the family and the community. Normalization, stigma and adjustment to loss emphasized.

**67728/77728 Adjustment and Training Groups (3)**

Review of group counseling techniques for rehab counselors and school psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined including techniques for persons with disabilities. Prerequisite: special approval.

**67729/77729 Measurement and Appraisal in Rehabilitation (3)**

Review of measurement theory and principles as applied in rehabilitation. Demonstration of instruments used in vocational assessment. Simulation of psychological consultation. Special fee: \$15 per semester.

**67731/77731 Individual Counseling Procedures in Rehabilitation Counseling (3)**

Review of individual counseling techniques. Skills developed in communication, interviewing, problem identification, goalsetting and program development are fostered by lecture, video feedback and simulation.

**67732/77732 Occupational Aspects of Disability (3)**

An introduction to a wide range of occupational and vocational analysis through job analysis, job seeking, job placement, job restructuring, work adjustment and independent living approaches. Prerequisite: CHDS 6/78182.

**67736/77736 Individual Counseling Practicum in Rehabilitation (2-4)**

Supervised, controlled exposure to rehabilitation clients; examine alternative modes of intervention; group and individual feedback sessions using audio and videotape recordings. S/U grading; IP permissible. Prerequisite: RHAB 6/77731. Special fee: \$7.50 per credit hour.

**67743/77743 Psychiatric Rehabilitation (3)**

Review of psychiatric, alcohol and other drug-related disabilities and their treatment. Topics include psychosocial rehabilitation, case management and psychotropic medication.

**67744/77744 Drug and Alcohol Rehabilitation (3)**

Review of substance abuse treatments, trends, modalities and community agencies; vocational implications of substance abuse; vocational assessment issues and job placement options.

**67776/77776 Seminar on Research in Disabilities (3)**

Survey of the research literature in disabilities. Guidelines for evaluating and implementing research findings. Acquaints students with current research. Evaluation of design, statistical analysis and conclusions. IP permissible. Pre- or corequisite: EVAL 65510.

**67795/77795 Special Topics in Rehabilitation (1-3)**

Presentation of special interest to students. Offered irregularly. Topic will be announced in Schedule of Classes. Prerequisite: special approval.

**67796/77796 Individual Investigation in Rehabilitation Counseling (1-3)**

Independent reading and/or research directed by a graduate faculty member. IP permissible.

**67798/77798 Individual Research in Rehabilitation (1-9)**

Research project on an aspect of rehabilitation under supervision of instructor. Arrangements with instructor must be made prior to registration. S/U grading; IP permissible. Prerequisite: special approval.

**77792 Internship: Rehabilitation (6)**

Assignment to rehabilitation agency for extensive and intensive applications for rehabilitation counseling, consulting and coordinating. Supervision of internships shared jointly by rehabilitation agency and the university instructor. Credit hours to be fixed at registration time. Repeat registration permitted. Credit hour reduction for prior experience may be granted. S/U grading; IP permissible. Prerequisite: RHAB 6/77736.

**88129 Advanced Assessment in Rehabilitation (3)**

Psychological, neurological and vocational assessment; assessment of independent living skills; sensory and cognitive impairments; ethical standards in assessment; theory and issues in research.

**88182 Psychological Adjustment to Disability (3)**

Psychosocial aspects of disability; models of adjustment; attitudinal barriers. Prerequisite: RHAB 67725.

**88188 History and Systems of Rehabilitation Psychology (3)**

Historical development of rehabilitation programming and psychology; basic philosophy,

theoretical systems and process;  
professional and scientific ethics;  
professionalization; professional  
issues and research. Prerequisite:  
RHAB 67712.

### **Graduate Russian (RUSS)**

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- 2011 > Course Information >  
Course Descriptions Spring 2011 >](#)  
Graduate Russian (RUSS)

*The minimum prerequisite for  
50000-69999 level courses is  
graduate standing. Additional  
prerequisites may apply and are  
listed in this catalog.*

### **52211 Advanced Composition and Conversation (3)**

Advanced practice in written and  
oral expression in Russian.

### **52240 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.

### **52351 Survey of Russian and Soviet Literature (3)**

This course introduces students to  
the major movements and authors of  
Russian, Soviet, and post-Soviet  
literature, beginning with Karamzin  
and ending with Boris Akunin

### **62001 Graduate Research and Writing in Russian (3)**

Individual instruction and assistance  
with problems encountered in  
academic research and writing in  
Russian. Required of all graduate  
students in their first fall semester of  
graduate work.

### **62010 The Practice of Russian Translation (2)**

Students apply linguistic and  
communication science concepts to  
case studies of language mediation.  
Corequisite: TRST 60010.

### **62091 Seminar (3)**

Topic announced in Schedule of  
Classes; may be repeated when  
content changes.

### **62098 Research (1-15)**

Research or individual investigation  
for master's-level graduate students.  
Credits earned applied toward  
degree requirements if department  
approves; repeat registration  
permitted. IP permissible.  
Prerequisite: departmental special  
approval.

### **62240 Literary and Cultural Translation (3)**

Translation of documents from a  
variety of literary and cultural  
sources, including literature,  
expository and journalistic prose,  
scholarly treatises and essays.  
Translation into Russian will also be  
emphasized.

### **62250 Commercial, Legal and Diplomatic Translation (3)**

An introduction to methods and  
resources for the translation of  
commercial, economic, financial,  
legal, diplomatic and governmental  
documents. Prerequisite: TRST  
60010.

### **62251 Scientific, Technical and Medical Translation (3)**

An introduction to methods and  
resources for the translation of  
scientific, technical, industrial and  
medical documents. Prerequisite:  
TRST 60010.

### **62979 Case Study in Translation (3)**

Students will be responsible for a  
major translation and a terminology  
glossary, as well as a critical  
analysis of the source text, the  
problems encountered during the  
translation process and the strategies  
used to solve them. S/U grading.  
Prerequisite: special approval.

## **Graduate Social and Behavioral Sciences (SBS)**

[Kent State University Catalog 2010  
- 2011 > Course Information >  
Course Descriptions Spring 2011 >](#)  
Graduate Social and Behavioral  
Sciences (SBS)

*The minimum prerequisite for  
50000-69999 level courses is  
graduate standing. The minimum  
prerequisite for courses 70000 and  
higher is doctoral standing.  
Additional prerequisites may apply  
and are listed in this catalog.*

### **50002 Quantitative Methods in Social and Behavioral Sciences (3)**

Introduces the basic concepts and  
methods of statistics as applied to  
diverse problems in social and  
behavioral research. Demonstrates  
methods of exploring, organizing,  
and presenting data, and introduces  
fundamentals of probability,  
including probability distributions  
and conditional probability, with  
applications to 2x2 tables. Presents  
the foundations of statistical  
inference, including concepts of  
population, sample parameter, and  
estimate; and approaches to  
inferences using the likelihood  
function, confidence intervals, and  
hypothesis tests. Introduces and  
employs the statistical computing  
package, STATA, to manipulate  
data and prepare students for  
remaining course work in this  
sequence.

### **50020 Public Health Prevention (3)**

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

**50030 Seminar in Public Health Prevention (3)**

Explores case studies in public health prevention. Topic areas include HIV, substance abuse, domestic violence and injury prevention.

**50196 Individual Investigation in Social and Behavioral Sciences (1-3)**

Individual graduate investigation or research in areas related to social and behavioral sciences. Repeated registration permitted for a maximum of 6 credit hours. IP permissible. Prerequisite: special approval.

**53008 Grant Writing in Social and Behavioral Sciences (3)**

Students learn the basics of grant writing for federal and non-federal funding agencies with a particular emphasis on the components of most proposals for funding. This includes rationale for seeking funds, collaborations with community organizations, and working with consultants and subcontractors. Participants also learn about the basic sections of grant writing such as specific aims and hypotheses, developing a literature review, background and significance, research design and methodology, developing a budget and conducting research with human subjects. Participants have an opportunity to write sample grant proposals, learn about the review and scoring process and post-award grant management.

**54634 Social Determinants of Health Behaviors (3)**

Overviews the social determinants of health and the dynamic interplay between individual behaviors and community structures (systems orientation) including public policy, social and built environments, commercial messages, access to services, cultural norms,

psychosocial hazards, and poverty both as causal effects that either provide opportunity or constraints to health. Examines systems approaches to preventing public health threats from issues including substance use (alcohol, tobacco and other drugs), physical inactivity, poor dietary practices, unsafe sexual behaviors, violence and injury and mental health.

**73018 Theories of Prevention Science I (3)**

Provides a background and theoretical review of prevention science as a multi-disciplinary field focusing on systematic inquiry on health behaviors including substance use (alcohol, tobacco and other drugs), physical activity, dietary practices, mental health, violence and injury, and sexual behaviors.

**73019 Theories of Prevention Science II (3)**

Prevention science is inherently transdisciplinary and multitheoretical, focusing on a variety of public health issues with particular emphasis on the leading health indicators including mental health, substance abuse, tobacco, physical activity, nutrition, overweight and obesity, environmental health, violence, sexual behavior, immunization and access to health care. The transdisciplinary nature of prevention science includes epidemiology, statistics, political science, economics, laboratory sciences, biological sciences and social and behavioral sciences. Prevention science advances evidenced-based prevention programs and policies through empirical research as well as practice-based evidence along a continuum of universal, selective and indicated prevention strategies. Emphasizes prevention science methods and applications across

health populations. Prerequisite: SBS 73018.

**73020 Advanced Methods in Prevention Science (3)**

Focuses primarily on advanced quantitative methods in the application of prevention science.

**80100 Emerging Issues in Prevention Science (3)**

Survey relevant challenges and issues facing prevention science researchers.

**80198 Directed Research in Prevention Science (1-15)**

Directed research or individual investigation for doctoral students.

**Graduate Secondary Education (SEED)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Secondary Education (SEED)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**50093/70093 Variable Title Workshop in Secondary Education (1-4)**

Various topics designed to respond to issues, trends and specialized needs of elementary or secondary



schools. S/U grading. Prerequisite: special approval.

**52157 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. Students will develop and field test computing materials for their classroom.

**52260 Methods of Teaching Foreign Languages (3)**

Introduction to modern techniques and methods of foreign language instruction at the elementary and secondary level. Prerequisites: Foreign language proficiency level for teaching in public schools.

**52277 Teaching Science in the Secondary School (3)**

Analysis of teaching materials, demonstrations and participation in science classes appropriate for graduate students seeking certification to teach science in the secondary school. Special fee: \$15 per semester (subject to change).

**53315 Teaching Literature in the Secondary School (3)**

Explores the pedagogy of canonical literature, literary theory and approaches to teaching texts in the secondary classroom.

**53325 Multi-modal Literacies in the Secondary Classroom (3)**

Explores the pedagogies of reading and composing with a variety of print and non-print texts. Focuses on the impact of media culture on adolescent learners. Utilizes new literacies to enhance learning in the content area.

**53335 Teaching Language and Composition (3)**

Explores linguistic and rhetorical perspectives on the teaching of composition in secondary schools.

**57248 Teaching Critical Thinking (2)**

Techniques, procedures and materials for developing skills in application of analysis and thinking

processes.

**60199 Thesis I (2-6)**

Thesis students must register each semester until all degree requirements are met. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SEED 60199.

**62145 Principles of Secondary Teaching (3)**

Principles of teaching in the secondary schools with emphasis on purposes, curriculum, roles of the teacher, instruction and the adolescent learner in secondary, middle, junior and senior high schools.

**62146 Instructional Strategies and Classroom Management (3)**

Enables students to demonstrate proficiency in the selection and application of general strategies for instruction, of appropriate instructional media and materials, and in the accommodation of individual needs and cultural diversity within the secondary instructional setting. Pre- or corequisite: SEED 62145.

**62191/72191 Seminar in Secondary Education (1-3)**

Study and experience of various theoretical, methodological and practical approaches to special problems. Prerequisite: special approval.

**62192/82192 Advanced Practicum and Internship in Secondary Education (1-10)\***

Prerequisites: special approval. S/U grading; IP permissible.

**62195/82195 Special Topics in Secondary Education (1-5)**

Prerequisites: special approval.

**62196/82196 Individual Investigation in Secondary Education (1-5)**

Independent reading and/or research directed by a graduate faculty member. S/U grading; IP

permissible. Prerequisite: special approval.

**62198/82198 Research in Secondary Education (2-15)**

Students pursue an individualized research project under direction of instructor. S/U grading; IP permissible. Prerequisite: special approval.

**67147 Teaching Adolescent in the Secondary School Culture (3)**

Providing for motivation, discipline and instruction of adolescents within the culture of the secondary school.

**67148 Research and the Classroom Teacher (3)**

An examination of the teacher as both a researcher and as a consumer of research.

**67231/77231 Trends in Secondary Education (3)**

Current trends, issues and problems in secondary schools. Emphasizes individual student's careful examination of a problem in American secondary schools.

**67232/77232 Secondary School Social Studies (3)**

General focus is on examining current instructional and curricular trends in teaching social studies. Emphasis is placed on strategies of teaching, developing student's critical thinking skills, role of the computer, use of primary sources, teaching controversial issues and stimulating active citizenship. Prerequisite: special approval.

**67234/77234 Science in Secondary Education (3)**

Analyzes methods, materials, course content and evaluation in secondary school science teaching. Includes lectures, discussions, field trips, demonstrations and laboratory practicum. Prerequisite: teaching certification in one of the sciences.

## **Graduate Sociology (SOC)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **52010 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 environments, ethics and suicide. Prerequisite: Graduate standing in Sociology (SOC).

### **52126 Sociological Theories (3)**

An examination of classical, modern and post modern approaches to social theory. Prerequisite: graduate standing in Sociology (SOC).

### **52315 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. Prerequisite: Graduate standing in Sociology (SOC).

### **52359 Social Movements (3)**

Examination of various types and natures of social movements. Will treat with origins, developmental characteristics, and purposes of classic and contemporary movements. Prerequisite: Graduate standing in Sociology (SOC).

### **52421 Childhood in Society (3)**

Societal definitions of childhood, socialization of children: child-centered, child-oriented and child-dominated systems, relationships with other siblings and social categories. Prerequisite: Graduate standing in Sociology (SOC).

### **52478 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, the significance of youth movements with an emphasis on music as a dominant expression of youth culture. Prerequisite: Graduate standing in Sociology (SOC).

### **52558 Wealth, Poverty and Power (3)**

Sociological examination of economic stratification in the United States; focuses on the translation of class into power via politics, education and collective struggle. Prerequisite: Graduate standing in Sociology (SOC).

### **52561 Sociology of Religion (3)**

Social context of religions and their ideologies and structures with special reference to religion in America. Prerequisite: Graduate standing in Sociology (SOC).

### **52563 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 that deal with health and illness. Prerequisite: Graduate standing in Sociology (SOC).

### **52564 Bureaucratic Organizations (3)**

Analysis of structure and functioning of complex organizations in their cultural context. Prerequisite: Graduate standing in Sociology (SOC).

### **52568 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. Prerequisite: Graduate standing in Sociology (SOC).

### **52577 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. Prerequisite: Graduate standing in Sociology (SOC).

### **52870 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. Prerequisite: Graduate standing in Sociology (SOC).

### **52879 Aging in Society (3)**

Analysis of demographic, sociological and sociopsychological dimensions of aging. Prerequisite: Graduate standing in Sociology (SOC).

### **62002/72002 Pro-Seminar in Sociology (1)**

Designed to introduce the entering graduate student to the major areas of study and research in sociology and other important facets of the professional dimension of sociology. Prerequisite: Graduate standing in Sociology (SOC).

### **62093/72093 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: Graduate standing in Sociology (SOC).

### **62100/72100 Early Sociological Thought (3)**

An examination of the contributions by Pre-1930 social thinkers to contemporary sociological theory. Prerequisite: SOC 4/52126 and graduate standing in Sociology (SOC). Akron 3850:722.

### **62105/72105 Contemporary Sociological Thought (3)**

Covers major contemporary theories. Emphasis on functionalism, conflict, exchange,

interactionism, and systems theory. Neofunctionalism, Neo-Marxism, structuration theory and other recent trends are treated. Prerequisite: SOC 6/72100 and graduate standing in Sociology (SOC). Akron 3850: 723.

**62199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Graduate standing in Sociology (SOC).

**62211/72211 Research Design and Methods (3)**

Study of methods for quantitative and qualitative research: role of theory, research designs, sampling, measurement and instrumentation, data collection, data analysis and interpretation, ethical issues. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:603, 604.

**62216/72216 Advanced Techniques in Research (1-3)**

Seminar on innovations in research methods. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:708.

**62217/72217 Multivariate Techniques in Sociology (3)**

Advanced multivariate techniques and methodological problems in the analysis of sociological data. Topics include non experimental causal analysis and path analysis. Prerequisite: SOC 32220 or equivalent and graduate standing in Sociology (SOC). Akron 3850:706.

**62218/72218 Advanced Data Analysis (3)**

Critical examination of data analytic techniques having particular relevance to research problems in sociology, with particular emphasis on multivariate inferential statistics. Prerequisite: SOC 6/72217 and graduate standing in Sociology (SOC). Akron 3850:709.

**62219/72219 Qualitative Methodology (3)**

Study of qualitative methods including interviewing, observation, use of personal documents, archival data, and special problems of recording and analyzing qualitative data. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:714.

**62220/72220 Survey Research (3)**

An in-depth study of the design and administration of social surveys. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:711.

**62299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SOC 62199, graduate standing in Sociology (SOC).

**62323/72323 Sociology of Health Care (3)**

A general study of the field of medical sociology with special emphasis on analysis of health and health in the contemporary urban United States. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:656.

**62324/72324 Sociology Epidemiology (3)**

An introduction to the methods, theories, and topics of social epidemiology, examining how macro and micro social environmental variables have an impact on disease and its distribution in society. Prerequisite: SOC 62211 and SOC 62217 and special approval. Akron 3850:615

**62326/72326 Sociology of Mental Health and Mental Disorders (3)**

Sociological examination of the social processes that affect mental health, that frame cultural ideas of normality and illness, and that define clinical pathology. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:728.

**62328/72328 Stratification and Health (3)**

Race, social class and gender differences in physical and mental health status, help-seeking behavior and health care. Race, class and gender stratification of health care workers. Akron 3850:726.

**62430/72430 Social Psychology (3)**

Examination of social psychological theory and research, both classic and contemporary. Provides student with background and working knowledge of social psychological aspects of social phenomena. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:631.

**62433/72433 Personality and Social Systems (3)**

Examination of contemporary theory and research on linkages between personality and society. Emphasis will be on the dynamics of those linkages and their effects on both individuals and social structures. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:634.

**62434/72434 Sociology of Communication (3)**

This course provides a general survey of the micro aspects of social communication. The concentration is on the sociolinguistic orientation to analysis of human communication. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:635.

**62435/72435 Sociology of Sentiments and Emotions (3)**

A sociological perspective is employed to analyze and understand the production, distribution and utilization of socially created sentiments and emotions. Prerequisite: Graduate standing in Sociology (SOC).

**62542/72542 Sociology of Work (3)**

Examination of work as behavioral phenomenon in human societies; contrasts with non-work and leisure; significance of occupations, professions and work types in organization of work. Prerequisite:

Graduate standing in Sociology (SOC). Akron 3850:649.

**62543/72543 Family Analysis (3)**

Analysis of actual and theoretical patterns of family systems; current research in family in relation to theories of family and theories of social systems. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:677.

**62546/72546 Social Inequalities (3)**

An overview of social inequalities - definitions, causes, identities, structures, and consequences. The focus is on social class with attention to intersecting dimensions of inequality. Graduate standing in Sociology (SOC). Akron 3850:646.

**62566/72566 Sociology of Gender (3)**

Examination of theories and research on gender origins, characteristics, and changes. Emphasizes recent empirical research on gender role patterns and processes in various industrial societies. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:639.

**62760/72760 Deviance (3)**

Examination of nature, types and controls of deviance; analysis of conceptual levels, theoretical contributions, processes in social labeling and self-labeling, case studies, social consequences and problems. Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:663.

**62870/72870 Sociology of Race and Ethnicity (3)**

An in-depth study of the theories, models, research approaches, and substantive areas that constitute the sociology of race and ethnicity. Graduate standing in Sociology (SOC). Akron 3850:651.

**62877/72877 Social Gerontology (3)**

Impact of aging upon individuals and society. Reactions of individuals and society to aging.

Prerequisite: Graduate standing in Sociology (SOC). Akron 3850:678.

**62885/72885 Internship in Applied Sociology (3-8)**

Student-negotiated project in specific human-service setting for practitioner; program designing; research; in-service training; writing a grant proposal. IP permissible. Prerequisite: Graduate standing in Sociology (SOC).

**62894/72894 College Teaching of Sociology (3)**

Preparation for college teaching. Maximum of 3 hours applicable toward master's degree requirements (with departmental approval). Hours do not count toward the doctoral degree. Akron 3850:700. Prerequisite: Graduate standing in Sociology (SOC)

**62895/72895 Special Topics (3)**

Offered irregularly when unusual resources and/or opportunities permit. Topic will be announced when scheduled. Prerequisite: Graduate standing in Sociology (SOC).

**62896/72896 Individual Investigation (1-3)**

Readings and/or research supervised by graduate faculty. Prerequisite: special approval. Akron 3850:797,798.

**62898/72898 Research (1-15)**

Research or individual investigation. Credits may be applied toward meeting degree requirements if department approves. Repeat registration permitted. Prerequisite: Graduate standing in Sociology (SOC).

**82199 Dissertation I (15)**

Doctoral dissertation, for which registration in at least two semesters is required. First of which will be semester in which dissertation is begun, and continuing until 30 hours are completed. S/U grading; IP permissible. Prerequisite: admission to candidacy for doctoral degree, and special approval. Akron: 3850:899.

**82299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: special approval.

**Graduate Speech Pathology and Audiology (SPA)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Speech Pathology and Audiology (SPA)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**50104 Speech and Language Rehabilitation (2)**

Orientation to types of speech, hearing and language disorders found in schools and how classroom teachers should handle them. Closed to speech pathology and audiology majors.

**53300 Speech of the Hearing-Impaired (3)**

Basic principles, variables and techniques for understanding, evaluating and improving expressive communication of hearing-impaired individuals.

Prerequisite: Education of hearing-impaired majors: SPA 34105 and 43600; speech pathology and audiology majors: SPA 33101 and 34102.

**53402 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 (grade of "C" or better).

**53404 Aural Rehabilitation (3)**

Basic principles, variables and techniques for understanding, evaluating and improving receptive communication of hearing-impaired individuals. Prerequisite: Education of hearing-impaired majors: SPA 43600; speech pathology and audiology majors: SPA 33101 and 34102 and 43402.

**53506 Special Issues in Audiology (3)**

Readings and discussion of classic and current research on the evaluation of hearing disorders. Prerequisite: SPA 4/53402.

**54096 Independent Study: Speech Pathology and Audiology (2-6)**

Readings and/or research on problems approved by chair of department in consultation with student's advisor and project director. IP permissible. Prerequisite: special approval.

**54110 Speech Science (3)**

Consideration of physiological and acoustic characteristics of normal speech production and perception with implications for speech and hearing disorders. Prerequisite: SPA 34102 and 34106.

**54111 Neural Processes in Speech and Language (3)**

Anatomy and physiology of the nervous system underlying speech and language. Topics include: definition and fundamental concepts, afferent and efferent systems, cortical anatomy and function, cranial nerves, theories of brain function, and neural maturation and learning. Prerequisite: SPA 34103.

**54112 Age-Related Changes in Communication (3)**

Non-pathological age-related changes in speech, language and voice. Topics include: structural changes in orofacial, laryngeal and respiratory mechanisms; sequelae for speech, language and voice in the elderly; effects of age on swallowing; facilitating conversational interactions with elderly individuals.

**54130 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.

**54310 Clinical Procedures (3)**

An examination of evaluative and therapeutic procedures used with communicatively impaired children and adults. Prerequisite: SPA 34103 or 34106.

**63104/73104 Advanced Audiometry (3)**

Behavioral and physiological assessment of auditory and vestibular site-of-lesion.

**63105/73105 Amplification (3)**

Historical through contemporary views of the selection and fitting of amplification for the hearing-impaired. Consideration of legal, political and financial issues when

choosing to dispense. Prerequisite: SPA 4/53402 and 4/53404.

**63107/73107 Anatomy and Physiology of the Hearing Mechanism (3)**

Anatomy and physiology of the peripheral and central hearing mechanism, including the embryological development of the ear; some emphasis on conductive and sensorineural pathologies. Prerequisite: SPA 33101 and 4/53402.

**63202/73202 Auditory Electrophysiology (3)**

Foundations, instrumentation, protocols and interpretation of electrophysiological testing in audiology. Tests include brainstem response audiometry, otoacoustic, electronystagmography and interoperative monitoring.

**63205/73205 Advanced Amplification (3)**

Strategies for the selection, fitting and verification of advanced hearing aid technology. Prerequisite: SPA 6/73105.

**63301/73301 Pediatric Audiology (3)**

Audiological testing techniques in children including auditory development, philosophy in the selection of a test battery, and pathological conditions affecting the pediatric population.

**63502/73502 Advanced Aural Rehabilitation (3)**

Generic and specific models for implementing aural rehabilitation programs with children and adults.

**63504/73504 Psychoacoustics (3)**

Basic principles, theories, methods and findings relating physical and psychological dimensions of sound.

**63691/73691 Seminar in Audiology (3)**

Research, readings and discussion in any of these areas: aural rehabilitation, amplification, psychoacoustics, auditory physiology, medical audiology, hearing conservation. Repeatable up to a maximum of 12 semester hours.

**64091/84091 Seminar in Communication Disorders (1-3)**

Special topics seminar for advanced students in speech language pathology and audiology. Presentations and discussion of research projects are required. Repeatable to 9 credits. S/U grading; IP permissible.

**64093/74093 Workshop in Communication Disorders (1-3)**

Variable topic workshop offered when need arises, either on- or off-campus to update training in a particular area of speech pathology. S/U grading.

**64096 Individual Investigation: Speech Pathology and Audiology (1-6)**

Independent study of topics to be selected in consultation with graduate faculty. May be repeated for maximum of 12 credit hours. Prerequisite: special approval.

**64098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Repeat registration permitted. Prerequisite: special approval.

**64191/74191 Seminar: Neurogenic Communication Disorders (1-3)**

Reading and discussion seminar on swallowing disorders and the communication disorders relating to aphasia, apraxia, dysarthria, closed head injury, right brain damage and dementia. Repeatable up to 9 hours. S/U grading; IP permissible. Prerequisite: SPA 64301.

**64199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. Prerequisite: special approval.

**64291/74291 Seminar: Child Language (1-3)**

Topics are selected for class investigation from the areas of child language, development or disorders. Repeatable up to 9 hours. S/U grading; IP permissible. Prerequisite: special approval.

**64299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPA 64199 and special approval.

**64301/74301 Aphasia and Apraxia (3)**

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to aphasia and apraxia of speech in adults.

**64302/74302 Language Assessment and Intervention in Early Childhood (3)**

Methods of language assessment and intervention for infants, toddlers and preschoolers who are either at risk or diagnosed as presenting language delays or disabilities.

**64303/74303 Disorders of Articulation and Phonology (3)**

Diagnosis and remediation of children's articulation and phonological disorders.

**64304/74304 Cognitive-Communicative Disorders (2)**

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to cognitive communicative disorders in adults subsequent to

right-brain damage, head trauma and dementia.

**64305/74305 Fluency Disorders (2)**

Nature, theories and their derived therapeutic approaches to the treatment of fluency disorders.

**64306/74306 Voice Disorders (2)**

Normal aspects of voice production, etiology and symptomatology of voice disorders, diagnostic procedures and management techniques.

**64307/74307 Dysarthria (1)**

Neuro-anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to dysarthria in adults.

**64308/74308 Language Assessment and Intervention with School-Age Populations (3)**

Theoretical background knowledge and practical assessment and intervention techniques for school-age children who demonstrate language disorders. Prerequisite: SPA 34107.

**64309/74309 Autism Spectrum Disorders: Theory and Diagnosis (3)**

Provides an examination of the medical, developmental, social, cognitive, and communicative aspects of disorders on the Autism Spectrum. Assessment and intervention models are explored as they relate to various theoretical models for understanding the presentation of ASD.

**64310/74310 Autism Spectrum Disorders: Lifespan Interventions (3)**

Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with ASD. Students learn skills necessary to

evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**64350/74350 Augmentative Communication and Language Programming (3)**

Methods of communication and language programming through augmentative and/or alternative modes with a primary focus on interdisciplinary teams and interdisciplinary decision-making and programming. Prerequisite: SPA 6/74302 or 6/74308.

**64351/74351 Clinical Management in Speech Pathology and Audiology (3)**

Consideration of problems involved in administration of speech and hearing programs as these vary from hospitals, clinics, schools and universities.

**64352/74352 The Supervisory Process in Speech Pathology/Audiology (3)**

Seeks to emphasize development of process skills related to clinical supervision in speech and hearing. Prerequisite: CI 67100.

**64353/74353 Communication Programming for Children with Multiple Disabilities (3)**

Nature and clinical management of the communication disorders of children having a variety of disabling conditions.

**64354/74354 Maxillofacial Anomalies (1-3)**

Nature and rehabilitative procedures for individuals with congenital and acquired maxillofacial anomalies and resonance disorders.

**64355/74355 Environmental Language Programming (3)**

Consideration of environmental and cultural influences on language behavior and relevance of these

factors in programming for language-impaired children. Prerequisite: SPA 4/54108 and 6/74302.

**64356/74356 Dysphagia (3)**

Anatomy, etiologies, symptomatologies, evaluation procedures and treatment techniques relating to swallowing disorders in adults and children.

**64391/74391 Seminar:**

**Articulation and Phonology (1-3)**

Critical review and application of systems and methods for assessment and remediation of articulation and phonological disorders. Repeatable up to 9 hours. S/U grading; IP permissible.

**64491/74491 Seminar: Organic Speech Disorders (1-3)**

A revolving topics seminar on theoretical and/or clinical issues related to neurogenic/organic speech and/or language disorders. S/U grading; IP permissible.

**64492/74492 Clinical Practice in Speech Pathology and Audiology (1-12)**

Supervised clinical practice with patients who have speech, hearing or language problems. IP permissible. Prerequisite: special approval. Special fee: \$25 per semester.

**64500/74500 Language Science (3)**

Detailed discussion of current theoretical issues in first language acquisition from the pre-linguistic period to the development of complex linguistic and communicative abilities.

**64504/74504 Experimental Phonetics (3)**

Consideration of experimental bases of normal speech production and perception; survey of literature, with implications for speech and hearing disorders. Prerequisite: SPA

4/54110.

**64506/74506 Instrumentation (3)**

Basic principles of electricity and electronics and their clinical and research applications to speech and hearing.

**64525 Public School Techniques In Communication Disorders: Inquiry Into Professional Practice (3)**

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech-language pathologist or audiologist as disciplined investigator. Combination of themes including organizational procedures, therapy techniques, collaboration, ethics and research. Prerequisite: special approval. Corequisite: SPA 64528.

**64528 Student Teaching in Speech-Language Pathology and Audiology (4-8)\***

Inquiry into speech pathology and audiology as practiced in the school setting; emphasis on speech-language pathologist or audiologist as disciplined investigator. Combination of themes including organization procedures, therapy techniques, collaboration, ethics and research. S/U grading. Prerequisite: special approval. Corequisite: SPA 64525.

**64591/74591 Seminar: Fluency Disorders (1-3)**

Seminar dealing with the theoretical and applied aspects of fluency disorders in children and adults. Repeatable up to 9 hours. S/U grading; IP permissible.

**64600/74600 Research Methods in Speech-Language Pathology and Audiology (3)**

Methodologies for collecting, analyzing and interpreting data for clinical and research purposes in speech-language pathology and audiology.



**64691/74691 Seminar: Voice Disorders (1-3)**

Current literature review and discussions dealing with varying topics ranging from normal aspects of phonation in various populations to disorders of voice and their diagnosis and treatment. Repeatable up to 9 hours. S/U grading; IP permissible. Prerequisite: SPA 6/74306.

**64791/74791 Seminar: Speech Science (1-3)**

Consideration of selected topics related to physiological, anatomical and acoustic aspects of speech production and perception. Repeatable up to 9 hours. S/U grading; IP permissible. Prerequisites: SP&A 4/54110 and 6/74504.

**64891/74891 Seminar: Communication modalities and Assistive Technology (1-3)**

Nature, etiologies and correlates of speech/language communication disorders and differences that may indicate a need for a multi-modal communication approach. Includes an emphasis on assistive technology for communication, language, learning and literacy. S/U grading; IP permissible. Prerequisites: SPA 64500 and 64302.

**64991/74991 Seminar: Critical Topics in Speech Language Pathology (1-3)**

Principles and methods of assessment and intervention for various topics in speech-language pathology from critical thinking and case-study framework. S/U grading; IP permissible. Prerequisite: Instructor approval; and speech pathology and audiology (SPA) majors only.

**70691 Seminar in Audiology (2)**

Selected current topics in audiology with emphasis on review of current

literature. Prerequisite: Admission to the Au.D. program.

**70692 Internship in Audiology I (2)**

Supervised practicum in audiology requiring the independent performance of basic audiologic procedures, including hearing aid management. Prerequisite: SPA 70744. Special course fee \$25.00 per semester (subject to change).

**70701 Basic and Applied Physical Acoustics for Audiology (4)**

Study of physical acoustics, basic electricity and electronics, as well as principles, methodology, calibration and maintenance of audiologic equipment. Prerequisite: Admission to the Au.D. program.

**70702 Anatomy and Physiology of Peripheral Auditory and Vestibular Systems (3)**

A study of the anatomy, biophysics and physiology of the auditory and vestibular systems. Prerequisite: Admission to the Au.D. program.

**70703 Acoustic Phonetics (3)**

Study of the acoustics, measurement and nomenclature of speech sounds and theoretical and acoustics bases of speech perception. (Includes 1 hour lab.) Prerequisite: Admission to the Au.D. program.

**70704 Critical Analysis of Research in Audiology (3)**

General introduction to the research process with an emphasis on acquiring a reading knowledge of research and an ability to evaluate research. Prerequisite: Admission to the Au.D. program.

**70705 Auditory Disorders (2)**

Study of conditions/diseases that can affect the auditory system. Prerequisite: Admission to the Au.D. program.

**70706 Anatomy and Physiology Underlying Neurootology (4)**

An in-depth study of the anatomy and physiology of the central auditory and vestibular nervous system. (Includes 1 hour lab.) Prerequisite: SPA 70702.

**70707 Psychoacoustics (3)**

Study of the principles, procedures and research of psychoacoustics; the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience with normal and impaired hearing. Prerequisite: Admission to the Au.D. program.

**70708 Critical Analysis of Research II (2)**

Development of a reading knowledge of research and the ability to evaluate the quality of research studies. Prerequisite: SPA 70704.

**70709 Audiologic Assessment (3)**

Theoretical basis for tests underlying basic audiologic assessments. Prerequisite: SPA 70705.

**70710 Industrial and Community Noise (3)**

Theoretical principles of noise measurement; etiology of noise-induced hearing loss and acoustic trauma; industrial hearing conservation programs; Occupational Safety and Health Act; community and recreational noise evaluation and management. Prerequisite: Admission to the Au.D. program.

**70711 Speech-Language Pathology for the Audiologist (4)**

Examination of normal and abnormal aspects of speech and language including their impact on auditory function and testing. Prerequisite: Admission to the Au.D. program.

**70712 Diagnosis of Auditory Disorders (3)**

Underlying theory and principles of administration and interpretation of site-of-lesion tests. Prerequisite: SPA 70709.

**70713 Hearing Aid Technology (4)**

Study of amplification systems for the hearing impaired. Prerequisite: SPA 70701.

**70714 Gerontological Issues in Audiology (3)**

Physiological, psychological and sociological theories of aging with focus on the etiology, symptomatology, assessment and rehabilitation of older adults with hearing impairments. Prerequisite: Admission to the Au.D. program.

**70715 Central Auditory Processing: Evaluation and Management (3)**

Study of audiologic evaluation and habilitation/rehabilitation procedures for people who have central auditory disabilities. Prerequisite: SPA 70705 and 70706.

**70716 Adult Hearing-Aid Fitting and Selection (3)**

Examination of the theory and practice of fitting hearing aids. Emphasis on special clinical procedures, research needs and evolving technology in hearing instruments. Prerequisite: SPA 70713.

**70717 Pediatric Audiology (3)**

Study of audiologic diagnostic and auditory habilitative protocols for the birth to age three population. Both assessment and management strategies will be emphasized. Prerequisite: SPA 70709.

**70718 Cochlear Implants (2)**

Study of cochlear implants in children and adults including equipment, candidacy, mapping and overview of (re)habilitation.

Prerequisite: Admission to the Au.D. program.

**70719 Counseling in Audiology (3)**

Focus on interviewing, counseling and interacting with individuals with hearing impairments, their families and significant others. Prerequisite: Admission to the Au.D. program.

**70720 Pediatric Amplification (3)**

The focus of study is on amplification systems and fitting techniques for the pediatric population. Prerequisite: SPA 70713 and 70716 and 70717.

**70721 Evaluation and Management of Balance Disorders (3)**

Study of the balance mechanism; differential diagnostic assessment of balance disorders including electronystagmography, posturography and rotational testing; rehabilitation of the balance-disordered patient. (1 hour lab included.) Prerequisite: Admission to the Au.D. program.

**70722 Audiologic Management of the School-Age Child (3)**

Focus on educational audiology. Features delivery of audiologic services designed to access the school environment for children ages 4-21. Prerequisite: SPA 70717.

**70723 Audiologic Rehabilitation of Adults (3)**

Study of current methodologies employed in the audiologic rehabilitation of adults with hearing impairments. Implementation of remedial strategies is emphasized. Prerequisite: SPA 70716.

**70724 History of Audiology (1)**

An examination of the history of deafness/hearing impairment and the profession of audiology. Prerequisite: Admission to the

Au.D. program.

**70725 Medical Management of Auditory Disorders (2)**

A study of the multidisciplinary approach to medical/surgical management of patients with auditory and vestibular disorders. Prerequisite: SPA 70712.

**70726 Electrophysiological Techniques in Audiology (3)**

Study of evoked responses used in diagnostic audiology, including ABR, MLR, EchochG, ENOG, ALR, P300, VER and SSER. Prerequisite: SPA 70706.

**70727 Cultural Issues in Deafness (2)**

An introduction to deaf culture and the audiologist's roles and responsibilities in planning treatment with a member of the deaf community. Prerequisite: Admission to the Au.D. program.

**70730 Practice Management in Audiology (4)**

Study of issues that impact the management of audiological practices, including establishing a private practice, reimbursement, marketing, record-keeping and professional liability. Prerequisite: Admission to the Au.D. program.

**70741 Directed Observation in Audiology I (1)**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required. Prerequisite: Admission to the Au.D. program.

**70742 Directed Observation in Audiology II (1)**

Introduction to clinical practicum in audiology. Directed observation of clinical practice including audiologic diagnosis and audiologic rehabilitation are required.

Prerequisite: Admission to the Au.D. program.

**70743 Clerkship I (1)**

Clinical practicum in audiology during which students perform discrete tasks under supervision. Corequisite: SPA 70709 and approval of instructor. Special course fee: \$25.00 per credit hour (subject to change).

**70744 Clerkship II (1)**

Supervised clinical practicum in audiology during which students will perform discrete clinical tasks while under supervision. Prerequisite: SPA 70743 and special approval. Special course fee: \$25.00 per credit hour (subject to change).

**70747 Graduate Audiologist I (3)**

Supervised clinical practicum in audiology that encompasses audiologic assessments and audiologic habilitation. Prerequisite: SPA 70792. Special course fee: \$25.00 per semester (subject to change).

**70748 Graduate Audiologist II (3)**

Supervised clinical practicum in audiology requiring the independent performance of audiologic assessment procedures, audiologic rehabilitation, and vestibular assessment and rehabilitation. Prerequisite: SPA 70747 and special approval. Special course fee: \$25.00 per semester (subject to change).

**70749 Graduate Audiologist III (8)**

Full-time clinical practicum in audiology at an off-campus site. SPA 70748 and passing score of 600 or higher on the PRAXIS examination and special approval. Corequisite: SPA 70791.

**70750 Graduate Audiologist IV (8)**

Full-time clinical practicum in audiology at an off-campus site.

Students taking this course must have successfully completed the Praxis examination. Prerequisite: SPA 70749. Corequisite: SPA 70791.

**70751 Graduate Audiologist V (3)**

Full-time clinical practicum in audiology in an off-campus site. Prerequisite: SPA 70750 and special approval. Corequisite: SPA 70791.

**70791 Clinical Seminar in Audiology (1)**

In-depth consideration of topics/issues in the practice of audiology with emphasis upon issues related to clinical rotation. Repeat registration permitted. Corequisite: SPA 70750 or 70751.

**70792 Internship in Audiology II (2)\***

Supervised clinical practicum in audiology requiring the independent performance of diagnostic hearing aids and audiologic rehabilitation procedures. Prerequisite: SPA 70649. Special course fee: \$25.00 per semester (subject to change).

**70798 Research Project in Audiology (3)**

Completion of a doctoral research project including data collection, analysis, write-up and oral presentation. Prerequisite: Admission to the Au.D. program.

**84096 Individual Investigation-Speech Pathology and Audiology (1-6)**

Independent study of topics to be selected in consultation with graduate faculty. May be repeated for maximum of 12 credit hours. IP permissible.

**84098 Research (1-15)**

Research opportunities for doctoral students who have not yet passed their candidacy examination. Repeated registration permitted. Prerequisite: special approval.

**84199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun, and continuing until the completion of 30 hours. S/U grading; IP permissible. Prerequisite: Admission to candidacy, and special approval.

**84299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPA 84199 and special approval.

**Graduate Spanish (SPAN)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**58095 Selected Topics in Spanish (3)**

Topic to be announced in semester Schedule of Classes. May be repeated to maximum of 15 hours.

**58216 Contemporary Hispanic Culture (3)**

A study of selected sociological, political, cultural or economic issues in the contemporary Hispanic world.

**58340 Medieval Spanish Poetry (3)**

Spanish poetry from its origins to 1500.

**58350 Don Quixote (3)**

A detailed study of Cervantes' masterpiece.

**58351 Minor Works of Cervantes (3)**

La Numancia, Entremeses, La Galatea, Novelas ejemplares.

**SPAN 58352 Medieval Spanish Prose (3)**

The development of medieval Spanish prose, with special emphasis on La Celestina.

**58354 Neoclassicism and Romanticism (3)**

Survey of Neoclassicism and Romanticism in Spain.

**58356 Golden Age Prose (3)**

Study of the development of the various forms of prose fiction during the Spanish Golden Age.

**58358 19th Century Novel (3)**

Analysis and critical interpretation of outstanding representatives of the 19th-century novel.

**58360 20th Century Spanish Drama (3)**

Representative works of leading Spanish dramatists of the 20th century.

**58364 The Generation of '98 and After (3)**

Intensive reading of representative works with an examination of the historical circumstances that led to the formation of the Generation of '98.

**58366 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.

**58370 Modernism in Spanish America (3)**

Ruben Dario and other writers of the modernista movement; works include modernist poetry, short stories and essays.

**58372 Spanish-American Novel I (3)**

A cultural and literary analysis of selected major Spanish-American novels written between 1900 and 1950.

**58373 Spanish-American Novel II (3)**

A cultural and literary analysis of selected major Spanish-American novels written from 1950 to the present.

**58374 Modern Spanish-American Drama (3)**

Analysis of selected plays from various Spanish-American countries.

**58376 Contemporary Spanish-American Short Story (3)**

The development of the Spanish-American short story from 1917 to the present.

**58378 U.S. Latina/o Writers (3)**

The course focuses on a representative selection of literary pieces in Spanish by recent U.S. Latino writers, developing oral and listening skills in Spanish and strengthening critical thinking on various cultural and literary matters.

**58422 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.

**58423 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.

**68001 Spanish Literary Research and Writing (3)**

Individual instruction with problems encountered in academic research and writing in Spanish. Required of all graduate students in their first semester of graduate work.

**68010 The Practice of Spanish Translation (2)**

Students apply linguistic and communication science concepts to case studies of language mediation. Corequisite: TRST 60010.

**68093 Variable Title Workshop in Spanish (1-6)**

Workshops individually designed to provide instruction and training in specific areas of Spanish studies. Prerequisite: special approval.

**68095 Selected Topics (3)**

Selected topics on Spanish literature or linguistics.

**68098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned applied toward degree requirements if department approves. Repeat registration permitted. IP permissible. Prerequisite: special approval.

**68191 Seminar in Fiction (3)**

Intensive study of one or two major writers of a movement in the history of Spanish and Spanish-American fiction.

**68199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. IP permissible.

**\*68201 Reading Spanish for Graduate Students (4)**

Introduction to the fundamentals of Spanish grammar for graduate students. Practice in reading and translation.

**\*68202 Reading Spanish for Graduate Students (Humanities/Social Sciences) (3)**

Specialized graded readings in Spanish for students in the humanities and social sciences. Not open to Spanish majors.

**68215 Advanced Spanish Composition and Conversation (3)**

Intended to strengthen advanced-

high or superior writing skills of description, summary, narration, exposition, and argumentation on topics dealing with diverse areas of Hispanic culture as presented through literary and non-fiction texts.

### **68240 Literary and Cultural Translation (3)**

Translating documents from a variety of literary and cultural sources, including literature, expository and journalistic prose, scholarly treatises and essays. Translation into Spanish will also be emphasized.

### **68250 Commercial, Legal and Diplomatic Translation (3)**

An introduction to methods and resources for the translation of commercial, economic, financial, legal, diplomatic and governmental documents. Prerequisite: TRST 60010.

### **68251 Scientific, Technical and Medical Translation (3)**

An introduction to methods and resources for the translation of scientific, technical, industrial and medical documents. Prerequisite: TRST 60010

### **68299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPAN 68199.

### **68391 Seminar in Theatre (3)**

Intensive study of one or two major dramatists or movements in the history of Spanish and Spanish-American theatre.

### **68591 Seminar in Poetry (3)**

Intensive study of one or two major poets or of a movement in the history of Spanish and Spanish-American poetry.

### **68979 Case Study in Translation (3)**

Students will be responsible for a major translation and a terminology glossary as well as a critical analysis of the source text, the problems

encountered during the translation process and the strategies used to solve them. S/U grading. Prerequisite: special approval.

*\*Credit hours earned in this language sequence are not applicable toward the completion of the hour requirement in a student's graduate program and do not count toward the minimum 8-hour semester load required.*

## **Graduate Special Education (SPED)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **50093/70093 Variable Title Workshop in Special Education (1-5)**

Topics of special interest to students desiring to intensify their knowledge in particular areas. Presenters include faculty members of Kent State University and other institutions. Offered irregularly. S/U grading.

### **53010 Family and Professional Collaboration (3)**

This course provides knowledge and strategies for working with family members of exceptional individuals and members of related professions who provide services to them. Use of collaborative, interdisciplinary, interagency models in special education. 20 clinical and 10 field hours. Prerequisite: SPED 63200.

### **53020 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 student with intensive needs. 10 field and 20 clinical hours. Special fee: \$20 per credit hour (subject to change).

### **53030 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. 25 field hours.

### **53031 Applied Behavior Analysis II: Application (3)**

Equips students with the skills necessary to integrate the technology of applied behavior analysis (as learned in SPED 53030, Applied Behavior Analysis I) with the analytical skills necessary to prevent, teach, manage and assess behavior. Specific behavioral interventions are presented. Includes 40 field hours. Prerequisite: SPED 53030.

### **53040 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. Contains 15 clinical and 15 field hours.

**53050 Characteristics of Students with Mild/Moderate Intervention Needs (3)**

Definitions, causes, characteristics; social, educational implications of learning, developmental and emotional/behavioral disorders of students identified with mild/moderate disabilities. Methods of assessment and interventions; current issues. 10 clinical/10 field hours.

**53051 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. 10 clinical/10 field hours.

**53060 Curriculum Methods in Special Education (3)**

Curriculum development, programming, delivery for students with mild to moderate disabilities. Introduction to transition planning. Emphasis on functional curriculum and adapting instructional techniques, materials, assessment to meet needs. 33 field clinical hours.

**53062 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.

**53063 Curriculum Methods 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. Prerequisite: SPED 53060.

**53070 Planning and Programming for Transitions (3)**

This course addresses life-span community participation and the planning, support development and services available to accomplish it. Introduction to community agencies and adult services. 10 clinical/15 field hours.

**53080 Assistive Technology for Students with Disabilities (3)**

Examines the application of high- and low-technology assistive devices for students with intensive intervention needs. Analysis of technology needs; selection/development of technology; training/evaluation of technology use by students. 20 clinical hours. Prerequisite: SPED 53050 or 53051.

**53092 Deaf Residential School Field Experience (1-3)**

Week-long practicum at a residential school for the deaf; 24-hour interaction with deaf students and adults. Students stay on campus. Conduct, interaction, sign language skills, maturity, responsibility and performance are evaluated by staff at the school. Prerequisite: ASL or SPED 29202 with a minimum grade of B- (2.7); and SPED 53309 with a minimum grade of B- (2.7).

**53100 Survey of 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.

**53101 Deaf Culture and Community (3)**

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 story-telling and folklore.

**53102 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. Requires 20 hours of field experience.

**53103 Interpreting Processes Deaf/Hard of Hearing II (3)**

Intermediate-/advanced-level interpreting course addressing voice-to-sign and sign-to-voice processes using simultaneous and consecutive strategies: ASL, SEE, Signed English, Total Communication. Focus on middle school/high school/post-secondary students developmentally delayed through gifted academic levels. Requires 30 hours of field experience. Prerequisite: SPED 39201 and SPED 4/53105 and SPED 4/53102.

**53104 Interpreting Process III (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. Prerequisite: SPED 39201 and 4/53103.

### **53105 Signed English and Other Systems (3)**

Receptive and expressive use of English-based sign language systems; ASL root words, prefix/suffix use, simultaneous speaking and signing. Explanation and demonstration of cued speech; exploration of the research related to individuals who use cued speech. Prerequisite: SPED 4/53100; ASL/SPED 29202.

### **53106 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. Prerequisite: ASL 19201 or SPED 19201 and SPED 4/53100.

### **53107 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 per week to observe and assist with classroom interpreting. Prerequisite: SPED 29201 and 4/53100.

### **53108 American Sign Language Linguistics and Usage (3)**

Analytical study of American Sign Language syntactic, semantic, morphology and pragmatics; comparison of spoken languages and ASL using the Stokoe system,

impact of educational-setting characteristics on linguistic processes. Prerequisite: SPED 29202 and 4/53100.

### **53109 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. Prerequisite: SPED 29202.

### **53110 Discourse Analysis for Interpreters (3)**

Spoken English and ASL usage is studied as they appear in conversational situational and interpreted contexts. Analyze of discourse and self analysis of classroom discourse will be targeted. Prerequisite: SPED 43100, 43102, 43106, 43107. Corequisite: SPED 43101.

### **53111 The Professional Interpreter (3)**

This course will cover current trends in the field regarding situational and ethical issues. Demand/Control Schema and Ethics will be the focus in order to prepare students for the national certification test. SPED 4/53100, 4/53106.

### **53192 Practicum: Interpreting Process (1-3)**

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. Prerequisite: SPED 29202.

### **53309 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. 20 field hours.

### **53310 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 53309 with a minimum grade of B- (2.7); and SPED 29202 or ASL 29202 with a minimum grade of B- (2.7); and SPA 34104. Corequisite: SPED 63392.

### **53311 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 with ADHD, BD, DD, VI, DB, LD, CMI, TBI, chronically health impaired/medically fragile, gifted. Curriculum and lesson developed



and adapted for impacted areas.  
Prerequisite: SPED 53313 with a minimum grade of B- (2.7).  
Corequisite: 2 credit hours of SPED 63392.

**53313 Literacy Assessment and Intervention for Deaf/Hard of Hearing Students (6)**

Theoretical overview of 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. \$8.33/cr fee. Prerequisite: SPED 53310 with a minimum grade of B- (2.7); and SPED 29202 or ASL 29202 with a minimum grade of B- (2.7); and CI 67310. Corequisite: 2 credit hours of SPED 63992.

**53316 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.

**53317 Family-Focused Approaches to Cochlear Implant Use (3)**

Examines effective support and utilization of cochlear implants from a family perspective. Includes the initial decision making and issues, through the child's and family's adjustment to the activation, use and maintenance of the device. Also focuses on the need long-term and sometimes unexpected outcomes of device usage and ultimately, adolescent and young-adult issues. Prerequisites: SPED 29202 or ASL

29202; and SPED 53310; and SPED 53010 or 63952; and SPA 43600.

**53324 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. Prerequisite: SPED 43313 with a minimum grade of B- (2.7); CI 57501 and 57502. Corequisite: 2 credit hours of SPED 63392.

**53529 Nature and Needs of Gifted Children (3)**

Personal characteristics, abilities and potentialities of gifted children through review of related research. Evaluation of research findings and implications for psychoeducational development.

**53530 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 53529.

**53534 Social/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.

**54161 Transitional Programming and Services for Disabled Youth (3)**

Transition from school to work and community life; vocational exploration/assessment and preparation/placement methods and techniques for secondary and postsecondary disabled youth. Prerequisite: SPED 53200.

**60199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**60299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPED 60199.

**63030/73030 Pharmacological Interventions in Special Education (3)**

Introduce mechanisms by which drugs act; identify benefits/side effects; implications for delivery/intervention; monitoring in classroom. Classes of drugs examined; issues examined; delineation of responsibilities and prohibitions.

**63031/73031 Program Development and Ethical Application of Applied Behavior Analysis (3)**

(Cross listed with SPSY 6/77931) Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making

treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized. Prerequisites: SPED 53030.

**63032/73032 Advanced Interventions for Addressing Severe Behavior (3)**

(Cross listed with SPSY 6/77932)  
Use and interpretation of functional behavioral assessments in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/ designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hours. Prerequisite: SPED 53030.

**63092 Field Experience in Special Education (1-9)**

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

**63101 Administration and Supervision in Special Education (3)**

Administration of educational programs for exceptional children; improvement of teacher competencies; function of special education supervisors; and special education operations at local, state and national levels.

**63200 Introduction to Exceptionalities (3)**

Introduction to exceptionalities of student development. Focus on foundations/theories associated with characteristics and accommodations for human exceptionalities. Collaborative/multidiscipline educational service design. 15 clinical/field hours.

**63201 Issues in Special Education (3)**

Surveys current research, literature and policy issues that affect identification, assessment and service provision to students with exceptionalities.

**63202 Instructing Students with Special Needs in Inclusive Settings (3)**

Students will develop knowledge of models of grouping and instructing students with special needs in inclusive settings, with a focus on curricular adaptations and methods of consulting, teaming and collaborating. Prerequisite: SPED 23000, 63200 or 63201. Special fee: \$25 per semester.

**63300 Research Applications in Special Education (3)**

Culminating experience in which students apply their content, methods and research skills to develop a final project that addresses an area of special education. Focuses on techniques for answering research questions, developing curriculum and assimilating knowledge through applied projects. IP permissible. Prerequisite: EVAL 65510 or 65511.

**63301 Single Subject Research Methods (3)**

Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relation to other research designs. 20 field hours.

**63392 Advanced Practicum in Special Education (2-8)**

Recreational, therapeutic and academic experience with exceptional children in camp, school or residential facility. Prerequisite: special approval.

**63531/73531 Curriculum Development for Gifted Learners (3)**

Focus on design/development of curriculum for gifted learners; adapt/modify existing curricula; design curricular materials through predetermined process assessment of suitability of materials.

**63532/73532 Gifted Program Design and Administration (3)**

Fundamentals of designing gifted programs are reviewed. Topics include student identification, in-service, advocacy, program evaluation, compliance with state standards and teacher preparation. Prerequisite: SPED 53529 and 53530.

**63533/73533 Gifted Subpopulations (3)**

The characteristics and needs of intellectually gifted individuals who often are not high academic achievers are studied with consideration of the implications for school practices.

**63535/73535 Intelligence, Assessment and Evaluation in Gifted Education (3)**

Provides examination of historical/contemporary theories of intelligence and influences on definitions/beliefs about giftedness. Alternative models of assessment discussed and implemented. Prerequisite: special approval.

**63950/73950 Curriculum and Intervention in Early Childhood Services (3)**

(Cross-listed with ECED 60150)  
Overview and comparison of early

childhood service approaches, including history and issues in delivering services, developmentally appropriate practice, environmental arrangement and how to modify curriculum. Prerequisite: special approval.

**63952/73952 Family and Professional Collaboration in Early Childhood (3)**

(Cross-listed with ECED 60159)  
Examines issues facing families and professionals serving young children who are at risk, disabled and typically developing. Prerequisite: special approval.

**63953/73953 Practical Applications: Birth to Five (3)**

(Cross-listed with ECED 60154)  
Practical application of recommended practices for young children birth to five. Observation of young children in natural environments. Plan and evaluate intervention with families and professionals. 60 field hours. Prerequisite: special approval.

**63954/73954 Practical Applications: Five to Eight (3)**

(Cross-listed with ECED 60162)  
Application of recommended practices for children five to eight. Observation of children in natural environment; plan/evaluate intervention collaboratively. 60 field hours. Prerequisite: special approval.

**63955/73995 Typical and Atypical Development in Young Children (3)**

(Cross-listed with ECED 60160)  
Overview of typical/atypical development pathways age three to grade three, including theories of behavior, implications of atypical development on play/learning, early childhood development within ecological framework. Prerequisite: special approval.

**63956/73956 Foundations in Early Childhood Services (3)**

(Cross-listed with ECED 60156)  
Overview of issues facing young children within context of family/society, including history, early childhood services, theoretical perspectives, implications of childhood disabilities, and recommended assessment, intervention and evaluation.

**63957/73957 Assessment and Evaluation of Early Childhood Services (3)**

(Cross-listed with ECED 60157)  
Examines a range of systems for comparing and observing early childhood services, practices, young children and families: types and purposes of assessment procedures and instruments, monitoring progress. Prerequisite: special approval. Special fee: \$25 per semester.

**63958/73958 Early Childhood Intervention Methods (3)**

Specific strategies for working with children birth to eight with intensive needs (e.g., cerebral palsy, spina bifida, autism). 30 clinical hours will provide students with the opportunity to practice newly acquired intervention strategies, knowledge and skills. Prerequisite: special approval.

**63959/73959 Medical Aspects of Lifespan Disabilities (3)**

Description of medical issues facing individuals with lifespan disabilities and their families. Examination of etiology, co-occurring disabilities and disorders, and treatment options in relation to individuals with Autism Spectrum Disorders and other developmental disabilities. Prerequisite: special approval.

**63991/73991 Seminar in Special Education (1-3)**

Various topics include: behavior modification, research problems in

special education, theories in special education, social processes in special education. Prerequisite: special approval.

**63992 Advanced Practicum in Special Education (2-8)**

Recreational, therapeutic and academic experience with exceptional children in camp, school or residential facility. Prerequisite: special approval. S/U grading; IP permissible.

**63995/73995 Special Topics in SPED (1-3)**

Specialized offerings in response to emerging or selected program needs.

**63996/73996 Individual Investigation in Special Education (1-10)**

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

**63998/83998 Research: Special Education (1-10)**

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

**64092 Field Experience for Mild/Moderate Intervention Specialist (2-4)**

Field assignments in conjunction with mild/moderate coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student learning aligned with CEC standards. Prerequisite: SPED 53020 and 53060 and 63992. Corequisite: SPED 53062 and 53040.

**64192 Field Experience for Moderate/Intensive Intervention Specialist (2-4)**

Field assignments in conjunction with moderate/intensive coursework. Evaluates students in personal conduct, communication skills, instructional design and methods, and impact on student

learning aligned with CEC standards. Prerequisite: SPED 53020 and 53061 and 63992. Corequisite: SPED 53063 and 53040.

**64310 Autism Spectrum Disorders: Lifespan Interventions (3)**

(Cross-listed with SPA 64310/74310) Provides students with a review of the significant aspects related to educational, social, vocational transitions for children, adolescents, and young adults with ASD. Students learn skills necessary to evaluate and develop programs designed to meet the changing and long term needs of individuals with ASD.

**70094 College Teaching (3)**  
(Cross-listed with SPSY 70094)

Discusses important aspects of teaching in higher education, including such topics as the students' philosophy of teaching, principles of adult learning, instructional strategies, student assessment and others.

**80090 Doctoral Residency Seminar (3)**

Provides students with the opportunity to synthesize courses, research and practice by focusing on diverse issues/topics. Ordinarily, SPED 80090 is taken no earlier than the second year of doctoral studies as a culminating course in the doctoral sequence. Prerequisite: special approval.

**80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPED 80199.

**83301 Single Subject Research Methods (3)**

Research designs and techniques associated with behavioral observation and a description of single subject experimental methodology are presented. The study of this methodology includes topics related to applied behavior analysis, assessment, experimental design and data evaluation. In addition, single subject methods are discussed in relations to other research designs. 20 field hours.

**83952 The Law and Special Education (3)**

Selected principles of constitutional, statutory, case and common law affecting handicapped and special education students, teachers and administrators are studied.

**83956 Biomedical Aspects of Special Education (3)**

Considers neurological, genetic and biochemical factors associated with exceptional children and youth. Discussions focus on development and related issues in serving the exceptional person.

**83991 Seminar in Special Education (1-3)**

Variable topics. Prerequisite: special approval.

**83992 Internship in Special Education (2-8)**

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

**83998 Research in Special Education (1-10)**

**Graduate School Psychology (SPSY)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**60093/70093 Variable Title Workshop in School Psychology (1-4)**

S/U grading. Prerequisite: special approval.

**60094/70094 College Teaching (3)**

Discusses major aspects of teaching in higher education, including such topics as the students' philosophy of teaching, principles of adult learning, instructional strategies, student assessment and others.

**60162/70162 Developmental Assessment (3)**

Reviews the educational, family and regulatory forces that influence success at each significant transition for preschool, kindergarten and primary-grade children. 24 clinical/field hours. Prerequisite: special approval.

**60165/70165 Principles of Social Learning (3)**

(Cross-listed with ECED 6/70165)

The main focus is to provide students with an understanding of behavioral and social-learning principles within the context of the school psychologist's professional practice. 19 clinical/field hours.

**60166/70166 Observational Analysis of Classroom Interactions (3)**

(Cross-listed with ECED 6/70166)

A practicum in construction and application of pupil observational assessment and procedures. Developmental and social psychology research is used to develop assessment items. 24 clinical/field hours.

**60191/70191 Seminar: School Psychology (1-4)**

Seminar in school psychology. Varied topics. Prerequisite: special approval.

**67692/77692 Practicum I in School Psychology (3)\***

Provides students with supervised experience in applied settings to practice introductory skills in assessment, intervention and professional development. S/U grading; IP permissible. 25 clinical field hours.

**67792/77792 Practicum II in School Psychology (3)\***

Provides students with supervised experience in educational settings to practice applied skills in assessment, intervention, consultation procedures and professional development. Two consecutive semesters in same academic year required. S/U grading; IP permissible. 75 clinical field hours. Prerequisites: SPSY 67692.

**67892/77892 Advanced Practicum in School Psychology (3)\***

Provides students with advanced supervised experience in educational or mental health settings to practice applied skills in assessment, prevention, intervention, consultation procedures, supervision, program administration and evaluation, and professional development. 60 clock hours per credit hour. Students register for a minimum of 6 hours (360 clock hours) across successive semesters. S/U grading; IP permissible. Prerequisite: SPSY 67792 and special approval.

**67912/77912 Role of the School Psychologist (3)**

Study of role and functions of school psychologists in American education. Includes history of school psychology and future orientation. 5 clinical/field hours. IP permissible.

**67914/77914 Field Experience in Education for School Psychologists (2)\***

Involves minimum of 120 clock hours of observation in public school. Required for those students in school psychology who do not have teaching certificates and have not spent extensive time in public schools. S/U grading; IP permissible.

**67918/77918 Problems in Research Interpretation (3)**

An intensive study of problems associated with typical research findings and publications. Issues include research, language, hypothesis testing, cost analysis, etc., as related to decision making.

**67920/77920 Diagnosis of Childhood Disorders in Schools (3)**

Provides overview of diagnosis and treatment of child/adolescent behavior disorders (AD/HD,

conduct problems), emotional and social disorders (depression, anxiety, phobias), and developmental/acquired disorders (autism, mental retardation).

**67925/77925 Introduction to Neuropsychology for School Psychologists (1)**

Introduces basic concepts in child neuropsychology with relevance for applied school psychological practice. Topics include biological bases of behavior and implications for educational interventions.

**67928/77928 Group Counseling Techniques for Rehabilitation Counselors and School Psychologists (3)**

Review of group counseling techniques for Rehabilitation Counselors and School Psychologists. Skills developed in group process and group leadership. A variety of group interventions will be examined, including techniques for persons with disabilities.

**67929/77929 Individual Counseling Techniques for Rehabilitation Counselors and School Psychologists (3)**

Review of individual counseling techniques applicable to Rehabilitation Counselors and School Psychologists. Skills developed in communication, interviewing, problem identification, goal-setting and program development are fostered by lecture, video feedback and simulation.

**67931/77931 Program Development and Ethical Application of Applied Behavior Analysis (3)**

(Cross listed with SPED 6/73031) Describe and apply methodology and research design in monitoring the effectiveness of behavioral interventions and to use such information to evaluate overall

program efficacy. Consideration is given to student characteristics (e.g., underlying disability) when developing and evaluating behavior programs based. Use of specific tools for prioritizing behaviors, evaluating progress, and making treatment program decisions are presented. Issues related to ethics, treatment implementation fidelity, and behavioral program development are also emphasized. Prerequisite: SPED 53030.

**67932/77932 Advanced Interventions for Addressing Severe Behavior (3)**

Use and interpretation of functional behavioral assessments in educational settings to lead to the identification of empirically-supported interventions to address the behavioral needs of children. The development, implementation and analysis of functional analysis procedures. Special emphasis given to identifying/designing, implementing and assessing the effectiveness of advanced behavioral interventions in consultation. 20 field hrs. Prerequisite: SPED 53030 and SPSY 67920/77920.

**67936/77936 Practicum in School Psychology (3)\***

Provides students with supervised experience in educational settings to practice applied skills in assessment, intervention, consultation procedure and in professional development. Two consecutive semesters in same academic year required. 75 clinical/field hours. S/U grading; IP permissible. Prerequisite: special approval.

**67951/77951 Cognitive Assessment of Children in Schools (3)**

Training and experience in administering, scoring and interpreting cognitive measures for

children and adolescents and writing reports. 30 clinical/field hours. Special fee: \$20 per credit hour.

**67955/77955 Instruction Assessment for School Psychologists (3)**

Training in administration, scoring and interpretation of academic achievement, adaptive behavior and social emotional/behavior scales and writing psychoeducational and evaluation team reports. 25 clinical/field hours. Special fee: \$20 per credit hour.

**67960/77960 Interventions with Culturally Diverse Students (3)**

Introduces skills to effectively and ethically implement educational and psychological interventions with culturally diverse children in educational settings. 5 clinical/field hours.

**67965/77965 Instructional Interventions for School Psychologists (3)**

Describes design and implementation of evidence-based interventions, methods of data collection and progress monitoring for school-based referrals within a problem-solving model. Requires 25 clinical/field hours. Prerequisite: SPSY 67955.

**67970/77970 Legal, Ethical and Professional Issues in School Psychology (3)**

Legal, ethical and professional issues and standards relevant for school psychologists will be explored. Considerations of law and policy, ethical standards and codes of professional practice will be addressed.

**67971/77971 Issues and Approaches in School Psychology (3)**

This course describes and illustrates contemporary elements and forces that impact professional service in

school psychology practice. Students register for two consecutive semesters in conjunction with internship. Repeatable up to 6 hours. S/U grading; IP permissible. Prerequisite: special approval.

**67972/77972 Social-Emotional Assessment for School Psychologists (3)\***

Training in administration, scoring and interpretation of techniques for assessment of social emotional functioning and adaptive behavior and writing evaluation team reports. 25 clinical/field hours.

**67973/77973 Consultation in the Helping Professions (3)\***

Students learn consultation skills and processes utilizing a number of professional models such as Caplan's model, behavior and problem-solving models and crisis consultation. 20 clinical/field hours.

**67974/77974 Social-Emotional Interventions in School Psychology (3)**

Describes design and implementation of social-emotional interventions for childhood disorders. Reviews progress monitoring for school-based social and emotional referrals within an eco-behavioral problem-solving model. Requires 25 clinical field hours. Prerequisite: SPSY 67972.

**67995/77995 Special Topics in School Psychology (1-3)**

Presentations of special interest to students. Offered irregularly. Topics will be announced in Schedule of Classes booklet. Prerequisite: special approval.

**67996/77996 Individual Investigation in School Psychology (1-3)**

Independent reading and/or research directed by a graduate faculty member. S/U grading; IP

permissible.

**67998/77998 Individual Research in School Psychology (1-9)**

Student pursues research project on selected aspect of school psychology under supervision of instructor. Arrangements with instructor must be made prior to registration. Repeat registration permitted. S/U grading; IP permissible.

**77980 Integrating Experience in School Psychology (2)**

This course requires student to research, study and develop expertise in a particular facet of school psychology and to present these findings at the conclusion of his/her training program. 38 clinical/field hours. Restricted to students in school psychology Ed.S. program. S/U grading.

**77992 Specialist Internship in School Psychology (1-6)\***

One academic year of field experience in schools under supervision of university supervisor and certified school psychologist who is employed by school system. 100 clinical/field hours. Restricted to Ed.S. students in school psychology program. S/U grading; IP permissible. Prerequisite: special approval.

**80090 Doctoral Residency Seminar (3)**

Exploration of philosophical, definitional and attitudinal issues in the helping professions. Involvement in current activities of professional life through collaborative work with professors other students and practitioners.

**80192 Clinical Supervision Practicum (3)\***

Provides for supervised experience in clinical supervision of graduate students in school psychology. Experiences include coordinating

case intake and assessment planning and providing feedback to graduate students on clinical reports and communication of results to clients/parents. S/U grading. IP permissible.

**80199 Dissertation I (15)**

Doctoral dissertation for which registration in at least two semesters is required, first of which will be semester in which dissertation work is begun and continuing until the completion of 30 hours. S/U grading; IP permissible.

**80299 Dissertation II (1 or 15)**

Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation and continuing until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SPSY 80199.

**87987 Professional Seminar in School Psychology (3)**

A professional seminar focused on the identity, history and development of school psychology, with special emphasis on current professional issues.

**87992 Doctoral Internship in School Psychology (1-6)\***

Professional service and field experience under the supervision of licensed psychologist. Restricted to Ph.D. students in school psychology program. Emphasis on staff development, in-service education, research and consultation. 150 clinical/field hours per semester hour of credit. S/U grading; IP permissible.

**87998 Research Seminar in School Psychology (3)**

Selected research topics in school psychology. Significant research literature is reviewed, research design methods and issues are presented, and small research projects are conducted. S/U grading.

**Graduate Sport and Recreation Management (SRM)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Sport and Recreation Management (SRM)

*The prerequisite for 50000-69999 level courses is graduate standing. The prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

*An asterisk (\*) adjacent to a course number indicates that 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 the student teaching/internship will take place.*

**53093 Variable Title Workshop in Exercise, Leisure and Sport (1-3)**

Workshop in exercise, leisure and sport studies; topics vary. Repeat registration permitted. Maximum 4 hours may be applied to degree. S/U grading.

**55022 Event Planning and Production (3)**

Students will learn the proper planning process that all sport events undergo. Students will then apply these concepts in actual events that they develop and hold.

**55023 Marketing and Promotions in Sport and Recreation (3)**

Analysis of marketing from a sport and recreation manager's perspective. Emphasis on marketing strategy and tactics in sport and recreation systems. Extensive use of case studies.



**55024 Sport in Global Perspective (3)**

This course is designed to encourage students to critically analyze how sport relates to general features of globalization and to provide insight into the connection between global and local politics (including ethnic, religious, gender, environmental and sociospatial politics). The underlying assumption is that sport is part of a growing network of global interdependencies that bind human beings together.

**55026 Sport in the Media (3)**

This course offers an introduction to current scholarship and issues concerning sport and the media, including critical analysis of media representations with attention to gender, race, sexuality, and disability, an examination of the structure of sports journalism and production, and an analysis of the role of mediated sport in our culture more generally. As such, the roles of institutions, producers, tests, and audiences and their relationships to each other are examined.

**56000 Tourism Development and Recreational Travel (3)**

Investigation of travel and tourism development using an interdisciplinary social science approach. Prerequisite: RPTM 36060.

**56001 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.

**56030 Dynamics of Leisure Behavior (3)**

Analysis of leisure behavior through examination of socialpsychological theories and research. Prerequisite: RPTM 36040 and 36075.

**56040 Therapeutic Recreation Program Techniques (3)**

Intervention/facilitation techniques employed in therapeutic recreation practice. Integration of theory into program plans used in TR for treatment and leisure education services for people with illnesses or disabilities. Prerequisite: RPTM 36080.

**56041 Advanced Therapeutic Recreation Program Techniques (3)**

Advanced intervention/facilitation techniques employed in therapeutic recreation practice. Professional issues related to therapeutic recreation practice. Prerequisite: ELS 56040.

**56060 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 will be examined. Prerequisite: RPTM 36040, 36075, 36092 or 36192.

**56070 Park Planning (3)**

Understanding the relationship between recreation places and the people who use them. This includes the planning, design and functioning of public and commercial recreation places. Prerequisite: RPTM 36040 and 36075.

**56080 Legal Issues in Sport and Recreation (3)**

Designed to alert potential recreation and sport professionals to the litigious environment prevalent in the US, increase awareness of their legal responsibility and risk

management.

**63018/73018 Ethics in Exercise, Leisure and Sport (3)**

Examination of selected situations in exercise, leisure and sport from an ethical reasoning perspective. A problem-oriented, case study approach based upon contemporary moral issues and moral theory.

**63095/73095 Research Seminar (1)**

Presentation and discussion of research by faculty and students. A total of 2 credits may be applied toward degree requirements. S/U grading.

**63096 Individual Investigation in Exercise, Leisure and Sport (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. Repeatable to 6 credit hours. IP permissible. Prerequisite: special approval.

**63098 Research (1-15)**

Research or individual investigation. Repeat registration permitted. IP permissible.

**63195 Special Topics in Exercise, Leisure and Sport (1-3)**

Selected and varied topics of relevance in exercise, leisure and sport. Repeat registration permitted.

**63199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a semester, distributed over several semesters if desired. S/U grading; IP permissible.

**63299 Thesis II (2-6)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: SRM 65199.

**65006/75006 Contemporary Issues in Sport Management (3)**

A comprehensive examination of current topics impacting administrations of professional and amateur sport programs from the local to international level.

**65008/75008 Sociology of Sport and Physical Activity (3)**

Sociological analysis of sport from a theoretical and empirical perspective.

**65021 Organization/Management of Sports Programs (3)**

A study of the pragmatic understanding necessary in the organization and management of a sports program at the high school, college or professional level.

**65031/75031 Social Psychology of Sport and Recreation (3)**

Psychological, social and developmental factors of participation and behavior in sport, exercise and recreational activities. Theoretical and applied perspectives addressed.

**65033 Legal Issues in Sport and Recreation (3)**

Provides students with a basic understanding of tort, contract and constitutional law in relation to sport and leisure.

**65034/75034 Contemporary Sport Law (3)**

Legal principles of antitrust law, injunctions, labor law and agency in sport, with a focus on professional sports. Prerequisite: SRM 65033.

**65036 Sport in Higher Education (3)**

Identification of contemporary problems and issues in collegiate sport, their history and the role of sport in colleges and universities, now and in the future.

**65038 Sport Promotion and Fundraising (3)**

Analysis of contemporary sports promotions strategies as well as fundraising tactics.

**65039 Financial Aspects of Sport and Recreation (3)**

Review of basic accounting, sources and uses of funds, capital budgeting, leasing and investments as they apply in a sports and recreation context. Financial software used in the sport and recreation industry will be introduced.

**65041 Tourism and Hospitality Review (3)**

Reviews academic tourism and hospitality literature to provide students with a theoretical and empirical understanding of the tourism phenomenon. Issues include tourist motivations; the social, cultural and environmental impacts of tourism; tourism and development; and the impact of hospitality services on tourism. Prerequisites: RPTM 46000 or SRM 56000.

**65042 Leadership of Sport and Recreation (3)**

Study of theoretical and applied constructs foundational to the leadership behavior applied to sport and recreation.

**65045 Sport Marketing (3)**

Develops an understanding of strategic marketing concepts and principles as they apply to the context of sport and entertainment. Examines a variety of topics related to the marketing mix, consumer/fan behavior, research methodology, as well as explore sport, entertainment and business organization relationships.

**65046 Facility Management and Operations (3)**

Analysis of management competencies necessary to operate

sport, recreation, convocation or convention facilities. Conceptual and technical aspects of planning and design introduced.

**65047 Global Issues of Tourism Trade (3)**

An examination of international and intercultural changes due to travel and tourism, particularly in economic, social and environmental areas. The studies include theories and cases and form the basis upon which a sustainable tourism policy is developed. The goal of the course is to prepare students for a leadership role in tourism policy making. The course has an emphasis on reading and discussion.

**65061/75061 Philosophical and Social Bases of Leisure and Sport (3)**

Overview of philosophical and social foundations of leisure and sport. Contemporary theories and perspectives will be examined.

**65062 Contemporary Issues in Leisure and Recreation (3)**

Seminar to identify contemporary problems in recreation and leisure, and seek methods for their resolution. Prerequisite: special approval.

**65063 Administrative Problems in Recreation and Leisure Services (3)**

Special problems in recreation and leisure service agencies, legal powers and liability, departmental organization, financing, personnel policies and human resource development. Prerequisite: RPTM 46060 or SRM 56060.

**65064 Concepts and Techniques in Therapeutic Recreation (3)**

Issues in the application of concepts in therapeutic recreation from a multidisciplinary perspective; study of evaluation and research. Prerequisite: RPTM 46041 or SRM

56041.

**65092 Internship in Sport and Recreation Management (2-4)**

Field experience involving supervised contact with sport and recreation administrators. Students will work as understudies with these administrators in all phases of their positions. Repeat registration permitted. IP permissible.

**65292 Internship in Leisure Studies (1-4)**

Field experience involving supervised contact with recreation and leisure professionals. Involves experience in all phases of agency administration. Repeat registration permitted. S/U grading; IP permissible. Prerequisite: special approval.

**65792 Internship: Sport Studies (1-6)\***

Supervised field experience in a sport or physical education setting. 60 hours of involvement per credit. S/U grading; IP permissible. Prerequisite: special approval.

**Graduate Summer Visual Communication Design (SVCD)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Summer Visual Communication Design (SVCD)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**55011/65011 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.

**Graduate Technology (TECH)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Technology (TECH)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**50000 Quality Standards (3)**

This course introduces students to issues in quality standards, quality assurance and statistical inference in applied technology and process control. Topics include systems reliability, quality control, SPC, control charts, principles and methods of statistical analysis and prediction, and hypothesis testing.

**51001 Methodology in Technology Education (3)**

Methods of teaching curriculum development and evaluation that are unique to the profession of technology education.

**51002 Organization in Technology Education (3)**

Principles and practices involved in curriculum and facility design appropriate for technology education, including equipment maintenance.

**51051 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.

**51052 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. Special Fee: \$20 per semester (subject to change).

**51055 Industrial Practice (1-4)**

Practical experience in industry of cooperative work study nature. Not available for persons who have taken TECH 33056. Prerequisite: special approval.

**51093 Variable Title Workshop in Technology (1-3)**

Specialized instructional unit oriented toward the application of current technology concepts. Repeat registration permitted. S/U grading.

**52200 Radiation Processing of Materials (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. Prerequisite: PHY 13002 or PHY 12202; and MATH 12002 or MATH 19002; and TECH 32100 and TECH 33363.

**53026 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. Prerequisite: TECH 33222, TECH 46330. Special fee: \$30.00 per semester (subject to change).

**53221 Digital Control Systems and Instrumentation (4)**

Focuses on applications of instrumentation and control systems using computers and micro-controllers including sensors, transducers, instruments, data acquisition boards, software programs, signal conditioning, and transmission methods. Prerequisite: TECH 33223, TECH 4/53026. Special fee: \$20.00 per semester

(subject to change).

**53550 Computer-Aided Manufacturing (3)**

The application of computers to the preparation of machine tool control programs, rapid prototyping and robotic control. Lecture 2 hours, laboratory 2 hours weekly. Prerequisite: TECH 23581. Special fee: \$60 per semester (subject to change).

**53700 Computer Integrated Manufacturing (3)**

The study of computer integrated manufacturing as system control, product design, machining, assembly, material logistics, quality, information usage and system integration relates to it. Prerequisite: TECH 31020 and 53550. Special fee: \$60 per semester (subject to change).

**53800 Applied Engineering Technology Seminar (2)**

An individual or group project involving the solution of a problem through the application of technology. Prerequisite: special approval. Special fee: \$40 per semester (subject to change).

**55150 Applied Flight Dynamics I (3)**

A course relating aircraft, engine and propeller performance to the overall flight performance of the typical light airplane. Includes flight test project participation. Special course fee \$10 cr./Hr. Subject to change. Prerequisite: MATH 11012 or 12002, PHY 13001/13002 or PHY 23101/23102 and TECH 15000. Special fee: \$20 per semester (subject to change).

**55350 Avionics (3)**

A descriptive course that covers electronic systems in aviation, particularly from the standpoint of aircraft equipment, its operational theory, and practical use by the

pilot. Prerequisite: PHY 13001/13002 or 23101/23102, TECH 15000, TECH 21021.

**55551 Introduction to Nanotechnology (3)**

Provides an in-depth overview of the fundamentals of nanoscience and nanotechnology. Includes surveys of developments within the breadth of the nanotechnology in various fields such as electronics, materials, energy, and biomedical sciences, etc.

**55700 Aircraft Design (3)**

Preliminary design of a fixed-wing aircraft for a specific mission; weight estimates; wing platform, airfoil and propulsion selection; airframe configuration and layout design; performance analysis; and overall systems integration. Special course fee \$16.66 cr. Hr. Subject to change. Prerequisite: PHY 13001/13002 or PHY 23101/23102; and TECH 15000 and 21021. Pre- or corequisites: TECH 45030 and 45150 and 45350.

**55791 Aviation Security and Policy Seminar (3)**

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

**56321 Web Database Integration (3)**

Laboratory course focused on integrating data sources into web sites. Current topics include server-side processing principles, web forms, database programming objects and Structured Query Language. Prerequisite: COMT 21005 and COMT 21036.

**56330 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. Prerequisite: TECH 10001, MATH 11011 and PHY 13001, and special approval.

**57000 Sustainable Systems and Technology**

Introduction to the fundamental concepts and principles of sustainability, sustainable technologies and sustainable systems. Provides students with an understanding of the basic principles and key issues of environmental, social and economic sustainability. Closely examines sustainability as it applies to the relationships among human beings, technology and the environment, with a special emphasis on sustainability in the context of "meeting humanity's current needs." Also stresses the ethics and importance of sustainability and the use of sustainable systems.

**57010 Ethics, Technology and the Environment (3)**

Explores the fundamental issues of the interconnections between human beings and the environment, with an emphasis on the ethics and the importance of sustainability. Takes an in-depth look at basic environmental concepts, ethics and values, as they relate to a wide range of practical subject matters, including technology, from global and national perspectives. Provides an in-depth look at sustainable systems and the ethical issues associated with sustainability as it relates to technology by focusing on common and future impacts as they apply to ethics, values and justice.

**57200 Systems Engineering (3)**

Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and the development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.

**57210 Sustainable Energy I (3)**

A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of present U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.

**57211 Sustainable Energy II (3)**

An in-depth study of the analysis, selection, and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical

feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic, and environmental impact associated with the development, implementation, and use of various forms of energy. Prerequisite: TECH 57210.

**60000 Project Management in a Technological Environment (3)**

The planning, organizing, directing and controlling of company technology resources for relatively short-term objectives. Students will also learn to make application of current projects. Special fee: \$20.

**60001 Quantitative Methods in Technology (3)**

A course on the use of analytical modeling and computer simulation techniques for the analysis, reformulation, validation and graphic presentation of data in engineering and technology applications. Prerequisite: MATH 12002.

**60078 Research in Technology (3)**

Research techniques for the technologist. Methods for designing, conducting, analyzing and interpreting results of technological research.

**61000 Industrial Technology Education (3)**

This course provides students with an understanding of the rationale and issues related to developing the industrial technology education program.

**61001 Organization and Administration of Industrial Education (2)**

Strategies for organizing and administering industrial education laboratory facilities to accommodate

contemporary curriculum and instructional techniques.

**61006 Instructional Strategies for the Multiple Activity Laboratory (2)**

Extensive participation and practice with instructional strategies for the multiple activity industrial arts laboratory. Survey of instructional styles, classroom and laboratory settings, and student sub-populations.

**61051 Technology Education for the Elementary School (2)**

The study of nature and purposes of technology education for elementary school and its relationships to general education.

**61091 Aerospace Seminar (1)**

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

**61095 Special Topics in Technology (1-4)**

Study of special topics in technology, including technological tours offered irregularly as interest and opportunities permit. When offered, contact the College of Technology office for details.

**61098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits earned may be applied toward meeting degree requirements if department approves. Repeat registration permitted.

**61199 Thesis I (2-6)**

Thesis option student must register for a total of 6 hours, 2 to 6 in a single semester, or to be distributed over several semesters if desired. S/U grading; IP permissible. Prerequisite: Advisor's approval.

**61299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible.  
Prerequisite: TECH 61199.

**62001 Control Theory (3)**

Automatic control of electromechanical, pneumatic and hydraulic systems using mathematical models. Discussion of system stability and classical root locus. Prerequisite: PHY 32551.

**62301 Electronic Communication System (3)**

Course examines the key concepts in electronic communication and teaches basic communication tools, AM and FM modulation/transmission, communication techniques, network and digital communication, wave propagation, antennas, waveguides, radar, laser, microwave.  
Prerequisite: instructor approval.

**62302 Fiber Optics (3)**

Course examines optical fibers, Maxwell's equation, Raman and Brillouin scattering, analog/digital and optical transmitters/receivers/amplifiers, RZ, NRZ modulation codes, dispersion management, coherent lightwave systems, multichannel systems.  
Prerequisite: TECH 33223 and instructor approval.

**62396 Individual Investigation in Electronic Technology (2)\***

Individual investigation of a student-selected topic oriented toward the technical aspects of electronics. IP permissible.  
Prerequisite: TECH 53221.

**63010 Computer Hardware (3)**

This course provides an introduction to the hardware, architecture, and operation of the Personal Computer and associated devices. Topics include personal computer

architecture and operation fundamentals, basic hardware, data buses and ports, hardware component packaging, auxiliary hardware components, computer assembly, and basic hardware installation, configuration, and troubleshooting.

**63020 Fiber Optic System (3)**

Principles and characteristics of fiber optics, fiber optic system components, and applications of fiber optics in electronic communication systems.  
Prerequisite: TECH 33220.

**63040 Electronic Communications (3)**

Study of electronic communications systems fundamentals, characteristics, design considerations, and implementation. Topics include signal modulation and demodulation, multiplexing, noise, transmitters, receivers, signal propagation, digital communications, transmission lines, antennas, and practical applications.  
Prerequisite: TECH 33223.

**63050 TRIZ-Theory of 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. The theory originated in Russia by the study of over 2 million patents. Web-based capstone for students finishing their master's degree. Students utilize materials learned in earlier courses to solve real world problems in multiple disciplines.

**63060 Management of Technology Innovation (3)**

Subjects covered in this course include: case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical

planning, technological forecasting, concept development, and elements of patents. A project is included that utilizes TRIZ software and innovation model elements. Special fee: \$80.00 per semester (subject to change).

**63070 Computer Hardware Design and Integration (3)**

In-depth study of Personal Computer (PC) and computer networking hardware. Topics include PC design, basic and auxiliary PC hardware components, PC assembly, PC upgrade and optimization, and PC repair, diagnosis, and troubleshooting. Additional topics include computer networking hardware, network architecture, network communication protocols, and network installation, configuration, and maintenance. Includes laboratory. Prerequisite: EERT 22014 or TECH 33010.

**63100 Computer-Aided Design (3)**

Study of modern industrial practice using computers in advanced graphics, design and analysis including geometric dimensioning and tolerancing, parametric design, solid modeling and finite element analysis. Lecture 2 hours and laboratory 2 hours weekly.  
Prerequisite: TECH 23581.

**63200 Computer-Controlled Systems (3)**

An overview of modern computer control systems in manufacturing.  
Prerequisite: TECH 4/53221.

**63496 Individual Investigation in Energy/Power Technology (2)\***

Individual investigation of selected topics within the energy/power technology systems. Prerequisite: TECH 31032.

**63870 Facility Design and Material Handling (3)**

Intended to provide students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for a complete approach to facility design and material handling.

**64010 Connectivity and Interoperability in Industry (3)**

This course will focus on integrating and administering multiple systems in an industrial environment. Two and one-half hours lecture and 1 half-hour lab weekly. Prerequisite: TECH 46311.

**64011 Technical Programming (3)**

This course will focus on writing programs to gather data from industrial devices and provide those data to information systems. Two and one-half hours lecture and 1 half-hour lab weekly. Prerequisite: TECH 46008.

**64012 Information Technology and Automation in Industry (3)**

This course will focus on developing systems that analyze and automate industrial processes and provide decision support. Two and one half hours lecture and 1 half-hour lab weekly. Prerequisite: special approval.

**64095 Special Topics in Computer Technology (1-4)**

Study of various topics that focus on current computer technologies. Repeat registration permitted.

**64396 Individual Investigation in Communication Technology (2)\***

Independent research consisting of a problem statement followed by literature search and application of an industrial practice. A proposal must be developed and a written paper project presented to faculty and industrial representatives. Prerequisite: special approval.

**65300 Airline Transportation Operations (3)**

The study of scheduled and nonscheduled airline transport operations under Federal Air Regulations (FAR).135. Prerequisite: special approval.

**65400 Evaluating Quality System Through Process Control (3)**

Evaluating industrial quality through statistical process control. Methods to produce design, process control and process capability are analyzed and evaluated for industrial quality control. Use of inspection equipment and assurance of receiving, fabricating and shipping acceptable materials, products and systems. Scientific management. Special fee: \$20.

**65496 Aerospace Technology (1-4)\***

Individual investigation of selected topic from the field of aerospace. Prerequisite: special approval.

**65500 Quality Systems and Industrial Productivity (3)**

Tools and techniques for increasing industrial productivity through total quality management. Productivity improvement techniques involving human, technology, material, product and processes, utilizing value engineering, analytical models and scientific management tools in high-technology environment. Special fee: \$30.

**65550 Design and Analysis of Experiments in Technology (3)**

Introduces planning and conducting experiments, as well as analyzing the resulting data using statistical techniques to obtain valid and objective conclusions. Also focuses on experiments performed in areas such as product design, manufacturing process development and process improvement.

**65700 Applied Reliability Engineering (3)**

Designed to provide technical managers, applied engineers, technologists and manufacturing personnel practical working knowledge of reliability measurement and testing. Concepts of reliability engineering are analyzed to determine failure rates for various types of destructive and nondestructive testing. Prerequisite: TECH 65400. Special fee: \$30.

**65800 Burn-in/Stress Testing for Reliability (3)**

Comprehensive course on reliability testing to analyze and establish reliability standards for components, products and systems. Specific emphasis on burn-in and stresstesting procedures to perform effective reliability statistical calculations will be the major focus of the course. Prerequisite: TECH 65700. Special fee: \$20.

**66380 Advanced Networking (3)**

Provides student with experience in fundamental and advanced computer networking techniques including network architectures, LAN systems, network security, and network management and administration.

**66382 Network Security (3)**

Provides student with experience in fundamental and advanced computer networking techniques including network architectures, LAN systems, network security, and network management and administration.

**66384 Computer Forensics (3)**

Provides students with experience in proper computer forensic techniques including incident response, forensic preparation, and data recovery and analysis.



**66596 Individual Investigation in Materials Technology (2)\***

Research directed toward the study and application of metallic and nonmetallic materials. IP permissible. Prerequisite: TECH 20002 or 33363.

**66796 Individual Investigation in Industrial Processes (2)\***

Individual investigation of a student-selected topic oriented toward industrial/manufacturing processes. IP permissible. Prerequisite: TECH 20002.

**67220 Life Cycle Design I (3)**

An in-depth investigation of Life Cycle Design of sustainable systems. Explores the cradle to cradle path of products with an emphasis on system Life Cycle stages and processes from a sustainability perspective. Examines how environmentally conscious system design can be accomplished by considering the environmental impact of technology and engineering as the part of the sustainable design process. Includes the study of sustainable development with respect to Green Technologies, hazardous materials and processes and reducing the environmental impact of product development and utilization. Also includes an introduction to Life Cycle Assessment and various Environmental and Life Cycle standards.

**67221 Life Cycle Design II (3)**

An in-depth study of environmental performance, environmentally conscious design and sustainable development. Focuses on Life Cycle Analysis and Assessment as a means to determine the potential economic, environmental, and ecological impact of products, processes, and activities across their entire life cycle. Takes a close look at the beneficial and detrimental effects of various technologies,

materials, products and processes with special attention to the reduction of harmful effects to human beings, the ecosystem, and the environment. Covers the analysis and assessment of energy consumption, natural resource depletion, and environmental degradation,, and ways to minimize detrimental effects on the environment. Includes the use of various life cycle engineering and assessment processes, models and analytical tools to identify, evaluate, and compare the environmental consequences associated with various products/activities, across a wide range of impact categories, to assist in design and decision making. Prerequisite: TECH 67220

**67320 Applied Sustainability in Construction Management (3)**

Investigation of strategies and methods used by construction managers and others to assist in developing sustainable built environments. Takes a close look at standards for environmentally sustainable construction and at the application of Best Management Practices for construction activities. Focus is on LEED Certification, International Standards on Environmental Management Systems, and other established criteria, guidelines, standards, and tools associated with Green Building. Provides an in-depth discussion and practical application of LEED assessment, guidelines and standards for various building sectors. Includes a major individual design project/case study involving research in green construction and design on a particular construction project, along with the application of LEED guidelines, assessment and methods to the project. Prerequisite: special approval.

**67496 Individual Investigation in Construction Technology (2)\***

Provides advanced work in a selected investigation in one or more of the many areas of construction technology. In some instances, an introduction to construction technology is considered depending upon student needs. IP permissible. Prerequisite: special approval.

**67596 Individual Investigation in Manufacturing Technology (2)\***

Independent study related to manufacturing industries. The study may include the development of a product for manufacture (or service) or the in-depth examination of an element of manufacturing. IP permissible.

**68196 Individual Investigation in Engineering Graphics (2)\***

Investigation of selected topics within engineering graphics including computer-aided design. IP permissible. Prerequisite: TECH 31087.

**68796 Individual Investigation in Industrial Technology System Design (2)\***

The study of two- and three-dimensional design as related to manufacturing, construction, communication and energy/power including patents, creativity and problem-solving approaches. IP permissible.

*\*When a student enrolls for an individual investigation course, it is assumed that the student has a problem, technical or professional, on which to concentrate. Study, experimentation and/or research necessary for the solution of the problem will be preceded by an analysis of the problem in consultation with the student's assigned professor. Documentation of the investigation will be filed with the department.*

## **Graduate Theatre (THEA)**

[Kent State University Catalog 2010 - 2011](#) > [Course Information](#) > [Course Descriptions Spring 2011](#) > Graduate Theatre (THEA)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

### **51026 Playwriting (3)**

Principles underlying playwriting for the contemporary theatre; analysis of short play form. May be repeated once. Prerequisite: special approval of instructor.

### **51027 Advanced Playwriting (3)**

Application of principles of playwriting to the longer play and to variations from traditional realism; play analysis and composition. May be repeated once. Prerequisite: THEA 51026 and special approval of instructor.

### **51093 Variable Title Workshop in Theatre (1-6)**

Variable topic offered as need arises to train in particular area of field. Specific topics will be announced in Schedule of Classes. S/U grading.

### **51095/61095 Special Topics (1-3)**

Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled. Repeat registration permitted.

### **51110 Theatre Research and Criticism (3)**

Introduction to theatre criticism, development of aesthetic theory and training, critical theory and fundamental research strategies through analytical reading and written responses to dramatic texts, scholarly works, and professional theatre productions in the region. Research papers incorporating various theories will be required.

### **51113 Theatre in a Multicultural America (3)**

A study of theatre and drama in the Native American, Hispanic American, African-American communities in the United States from 1980 to the present.

### **51114 Gay and Lesbian Theatre (3)**

Studies in how the gay and lesbian community has been represented in theatre. Frameworks will include the history of the community, political issues, identity questions and gender theory.

### **51133 Theatre and Drama in America I (3)**

History of theatre and drama in America from the beginning to ca. 1900. Prerequisite: special approval of Instructor.

### **51134 Theatre and Drama in America II (3)**

History of the theatre and drama in America from ca. 1900 to the present. Prerequisite: special approval of instructor.

### **51191 Variable Content Seminar: Theatre**

**History/Literature/Theory (3)**  
Seminar focuses on selected topics in these areas, for example, performance art, performance theory or theatre in a multicultural society.

### **51303 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, and qualities of movement. Taught in the same semester as THEA 51304. Prerequisite: special approval of instructor.

### **51304 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: special approval of instructor.

### **51305 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 resumes, making rounds, professional unions, casting directors, agents and managers, the job market and career prospects. Prerequisite: special approval of instructor.

### **51306 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, resumes, unions, job market, financial matters and career prospects. Use of computers as a resource and tool emphasized. Special course fee \$8.00 per credit hour (subject to change).

### **51401 Advanced Directing (3)**

Advanced work in directing for the theatre. Topics include director as creative/interpretative artist; the director and the actor. Students direct individual projects. Prerequisite: Special approval of instructor.

### **51521 Advanced Lighting Technology (3)**

Advanced study of the technologies used in lighting designs; instrument design, optics, dimmer control systems, projection techniques and special effects. Special fee: \$30 per semester.

### **51522 Design Studio: Lighting (3)**

Advanced study of lighting design, emphasizing artistic style and concept through a variety of design problems. Special fee: \$30 per semester. Prerequisite: special approval of instructor.

### **51523 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 of instructor.

**51524 Design Studio: Costume (3)**  
Advanced study in costume design. Genres, styles, in the context of performance spaces with an emphasis on research, practical considerations of costume production and communication between designer/shop personnel and designer/director. Prerequisite: special approval of instructor. Special fee: \$45 per semester (subject to change).

**51525 Props and Crafts (3)**  
Examination of the processes related to the creation and procurement of scenic and costume props. Special fee: \$50 per semester.

**51527 Sound and Design Technology II (3)**  
Studies in sound design, sound production and reinforcement for live performance. Advanced software applications will be explored. Additional work required for graduate credit. Prerequisite: THEA 51523 and special approval of instructor.

**51528 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 procession of audio. Extra work required for graduate credit. Prerequisite: special approval of instructor.

**51529 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: special approval. Special fee: \$45 per semester.

**51530 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: special approval of instructor.

**51560 Theatre Fabrication Technology (3)**  
History of technical production practice, materials theory and application in scenic construction technology. Special fee: \$80 per semester.

**51620 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 their application to theatrical design. Prerequisite: theatre (THEA) major.

**51621 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. Special fee: \$45 per semester.

**51622 Design Studio: Scenery (3)**  
Advanced study in scenic design. Explores genres, styles, performance spaces, including practical considerations. Prerequisite: special approval of instructor. Special fee: \$50 per semester.

**51623 Television Production: Lighting (3)**  
Studies in the process and application of designing lighting for studio and event-based television production. Prerequisite: special approval of instructor.

**51701 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. Prerequisite: special approval of instructor.

**51726 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.

**51736 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.

**51801 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. Prerequisite: special approval of instructor.

**51808 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 of instructor.

**51763 History of Dance as a Theatrical Phenomenon II (3)**  
History of the development of concert and theatrical dance forms from 1900.

**51714 Principles of Dance Composition I (3)**  
Movement exploration with emphasis on the concepts of design structure and form. Prerequisite: special approval of instructor.

**60096 Individual Investigation— Costume History (2)**  
The study of 20th-century costume and international dress. Prerequisite: special approval of instructor.

**60196 Individual Investigation—  
Historic Textiles (3)**

Identification and analysis of textile fabric as the reflection of culture.

**60199 M.F.A. Thesis Project (3)**

Students must register for course during the semester of their M.F.A. thesis project. Not repeatable. S/U grading; IP permissible. Prerequisite: special approval of advisor.

**60992 Professional Theatre  
Internship I (3-6)**

(Cross-listed with KBT 60992) Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in the Porthouse Theatre Company. S/U grading; IP permissible. Repeatable once.

**61000 Introduction to Graduate  
Study in Theatre (3)**

Orientation to bibliography and research in the field of theatre with emphasis on application of research to performance.

**61094 College Teaching in  
Theatre (3)**

Strategies for teaching, issues on implications of pedagogical practice, and responsibilities of academic leadership.

**61095 Special Topics (1-3)**

Offered irregularly when unusual resources permit a topic different from existing courses. Topic will be announced when scheduled. Repeated registration permitted.

**61096 Individual Investigation:  
Theatre and Drama (1-4)**

(Cross-listed with KBT 61096) Independent study of an area or problem approved by divisional graduate coordinator in consultation with project director. Repeatable for maximum of 6 credit hours. IP permissible. Prerequisite: special approval of instructor.

**61098 Research (1-15)**

Research or individual investigation for master's-level graduate students. Credits may be applied toward

meeting degree requirements if school approves. Repeat registration permitted. S/U grading; IP permissible.

**61110 History of Theories of  
Acting and Space I (3)**

History of theories of acting and space in the theatre from the beginning to ca. 1850.

**61111 History of Theories of  
Acting and Space II (3)**

History of theories of acting and space in the theatre.

**61112 Theatre History and  
Theory I (4)**

The development of theatre in the Greek and Roman world is examined in its historical and aesthetic contexts.

**61113 Theatre History and  
Theory II (4)**

The development of theatre in the Medieval and Renaissance periods is examined in its historical and aesthetic contexts.

**61114 Theatre History and  
Theory III (4)**

The development of theatre in the 17th and 18th centuries is examined in its historical and aesthetic contexts.

**61115 Theatre History and  
Theory IV (4)**

The development of theatre in the period of Romanticism is examined in its historical and aesthetic contexts.

**61116 Theatre History and  
Theory V (4)**

The development of theatre in the late-19th and early-20th centuries examined in its historical and aesthetic contexts.

**61117 Theatre History and  
Theory (4)**

The development of theatre in the later-20th century examined in its historical and aesthetic contexts.

**61191 Seminar: Theatre History  
and Theory (3)**

An investigation of a period, historical/theoretical development, playwright/practitioner/theorist (variable topics).

**61199 Thesis I (2-6)**

Thesis students must register for a total of 6 hours, 2 to 6 hours in a single semester, distributed over several semesters if desired. S/U grading; IP permissible.

**61201 Software Applications (3)**

A survey of current software used in theatre production with an emphasis on applications for management, design and technical direction. Prerequisite: special approval of instructor. Special fee: \$45 per semester.

**61299 Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: THEA 61199.

**61303 Acting III Scene Study:  
Naturalism and Absurd (3)**

In-depth scene study in the genres of Naturalism and Absurd theatre. Exploration of the works of Chekhov, Strindberg, Beckett and others. Prerequisite: special approval of instructor.

**61305 Acting Styles II: Greek and  
Comedy of Manners (3)**

Application of acting, movement, and speech techniques to these specific genres. Focus on style and physicalization using Greek and English Restoration playwrights as well as Molière, Wilde and others.

**61309 Master of Fine Arts  
Comprehensive Project in  
Acting (1-3)**

Intensive work in the development of the practical aspects of production; includes performance or exhibition of work, documentation of that work in a format appropriate for area and project, and an exit interview. Prerequisite: THEA 61000.

**61391 Seminar: Playwriting (3)**

Intensive analysis of dramaturgical theory. Scope of the inquiry dependent upon individual interests of those enrolled. Prerequisite: special approval of instructor.

**61401 Directing: Production Style (3)**

How plays "make" their meanings. Analysis of form and theatrical style for director and dramaturge. Prerequisite: special approval of instructor.

**61402 Directing: Text, Space and Actor (4)**

The director's relationship to playtext, theatrical world and the human actor. Theoretical exploration and practical experience. Prerequisite: special approval of instructor.

**61491 Seminar: Directing and Acting (3)**

Intensive theoretical and practical study of a great actor or director, a school of acting or directing, or stylistic approach; variable topics. Repeatable once. Prerequisite: special approval of instructor.

**61497 Production Colloquium (1-3)**

Collegial exploration of the intersections among creative and scholarly/critical/theoretical thinking. Students involved in the colloquium may be pursuing current creative projects under faculty supervision. Does not count toward degree. Prerequisite: special approval of instructor.

**61521 Advanced Theatre Drafting (3)**

Advanced drafting techniques for the technical director, scenic designer and lighting designer. Includes film, television, industrial and engineering graphic techniques. Prerequisite: special approval of instructor. Special fee: \$25 per semester.

**61522 Advanced Studies in Lighting Design (3)**

Detailed exploration of the skills of designing lighting with emphasis on

theatre, opera, ballet, alternative venues and professional standards. Special fee: \$30 per semester.

**61524 Advanced Studies in Costume Design for Stage and Screen (3)**

Detailed exploration of skills in designing costumes for stage and screen. Emphasis on concept work, stylist work, accuracy in research, organizational skills and industry standards. Prerequisite: THEA 51524. Special fee: \$30 per semester.

**61525 Millinery and 3-D Characters (3)**

Advanced studies of techniques of millinery construction and 3-D character construction with an emphasis on current practice in the industry. Special fee: \$80 per semester.

**61527 Shop Management (3)**

Study of resource management for the professional shop. Topics: Business planning, labor relations, accounting, budgeting and productivity techniques. Prerequisite: special approval of instructor.

**61561 Advanced Construction Theory (3)**

The theory and practice of structural and mechanical design for theatre production. Related issues in resource management for the professional shop. Prerequisite: special approval of instructor. Special fee: \$30 per semester.

**61621 Advanced Studies in Scene Painting (3)**

Advanced study of the techniques used in painting scenery for theatre and television. Emphasizes professional standards and the practical application of skills. Prerequisite: special approval of instructor.

**61622 Advanced Study: Scenery for Stage and Screen (3)**

Detailed exploration of the skills of designing scenery with emphasis on theatre, opera, ballet, film, television and alternative venues

and the professional standards associated with each area. Prerequisite: special approval of instructor. Special fee: \$50 per semester.

**61701 Movement, Form and Space II: Neutral and Character Mask (3)**

Advanced skills and conditioning focusing on the physical and vocal qualities of characterization achieved through performance in masks. Prerequisite: THEA 51701.

**61702 Musical Theatre Styles (3)**

The study of diverse styles of choreography for the actor performing in Musical Theatre.

**61801 Voice and Speech II: Vocal Demands and Dialects (3)**

Voice principles will be covered in depth and detail, with emphasis on their application to dialects, singing and media voice work.

**61802 Voice and Speech III: The Actor/Singer (3)**

Training in methods and skills necessary for the singing actor. Focus on the integration and physicalization of lyrics and music. Prerequisite: THEA 51801.

**61806 Singing for the Actor (1)**

A comprehensive study of performance techniques and repertoire appropriate to the singing actor. Prerequisite: THEA 51801.

**61992 Professional Theatre Internship II (3 or 6)**  
( Cross-listed with KBT 61992)

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a professional theatre company. S/U grading; IP permissible.

**62092 Practicum: Design/Technology (3)**

Practical experience for the graduate student in theatre design and technology under faculty supervision. S/U grading; IP permissible.

**62192 Practicum:  
Performance (3)**

(Cross-listed with KBT 62192)  
Practical experience for the graduate student in theatre performance under faculty supervision. S/U grading; IP permissible. Repeat registration permitted.

**62292 Theatre Management (3)**

Practical experience in theatre management under faculty supervision. S/U grading; IP permissible. Repeatable for a total of 12 hours. Prerequisite: special approval of instructor.

**62792 Production Dramaturgy (3)**

Under faculty supervision, a student will serve as dramaturg to a School of Theatre and Dance production. Repeat registration permitted.

**62892 Theatre Practicum (1)**

Practical experience for the graduate student in cocurricular theatre activities, under faculty supervision. Repeatable twice. S/U grading; IP permissible. Prerequisite: special approval of instructor.

**62992 Theatre Production  
Internship (1-6)**

(Cross-listed with KBT 62992)  
Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble. Repeatable for a maximum of 12 hours. S/U grading; IP permissible. Prerequisite: special approval of instructor.

**67070 Principles of Dance  
Composition II (3)**

Movement exploration with emphasis on the development of advanced choreographic techniques. Prerequisite: special approval of instructor.

**72892 Theatre Practicum (1)**

Practical experience for the graduate student in cocurricular theatre activities, under faculty supervision. Repeatable twice. Prerequisite: special approval of instructor.

**72992 Theatre Production  
Internship (1-6)**

Intensive advanced training in practical aspects of production. Periodic seminars, laboratory sessions and performance in a theatre company or touring with Kent Theatre Ensemble. Repeatable for a maximum of 12 hours. Prerequisite: approval of advisor.

**Graduate Translation  
Studies (TRST)**

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Graduate Translation Studies (TRST)

*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

**60001 Graduate Research and  
Writing in Translation Studies (3)**

Individual instruction and assistance with problems encountered in academic research and writing in translation.

**60009 Documents in Multilingual  
Contexts (3)**

An in-depth study of the role of documents in the multilingual information cycle as manifested in word-processing, desktop publishing and Web-based environments.

**60010 Theory of Translation and  
Interpreting (2)**

Introduction to the theoretical bases and methods of language mediation.

**60011 Terminology and  
Computer Applications in  
Translation (3)**

Practice-oriented introduction to terminology management and translation tools, such as term extraction, translation memory, and

machine translation. Prerequisite: TRST 60009.

**60012 Software Localization (3)**

Introduction to localization, the translation and adaptation of products, including software and Web pages, for sale or dissemination in specific target-language markets. Course introduces the basic concepts and techniques of localization and provides a hands-on introduction to relevant computer software. Prerequisite: TRST 60011 with minimum B (3.0) grade. Special fee: \$45.

**60013 Language Project  
Management (3)**

Introduction to project management in the language industry. Course covers the body of knowledge and skills, including the use of project management software, required to perform the duties of a translation or localization project manager. Beginning with an overview of the language industry, the course examines the language industry project. Prerequisites: TRST 60011 with minimum B (3.0) grade.

**60098 Research in Translation  
Studies (1-15)**

Research for M.A. translation students. Credits earned may be applied toward degree if department approves. Repeatable for a total of 15 credit hours.

**60298 Applied Translation  
Research (1-3)**

Research experience in translation or interpreting in a corporate, translation bureau or freelance setting, supervised by a faculty member. S/U graded. Repeatable for a maximum of 3 credit hours. Prerequisite: TRST 60010.

**70001 Applied Linguistics and  
Translation Informatics (3)**

Advanced topics in applied linguistics, including corpus and text linguistics as they apply to translation. Advanced topics in translation informatics in multilingual environments. Prerequisite: TRST 60011.

**70002 The Language Industry (3)**  
Study of the socio-economic context of professional translation and the language services business sector. Includes in-depth study of the language industry drawing on industry analysis and business case studies. Special fee: \$45.

**70003 Terminology Studies (3)**  
Advanced topics in terminology, lexicography, ontology and knowledge organization systems. Prerequisite: TRST 60011.

**70004 Translation Pedagogy (3)**  
Teaching methods and curriculum design for translation programs.

**70005 Current Trends in Translation Studies (3)**  
A critical examination of the main trends in translation theory and an exploration of emerging developments in translation studies. Prerequisite: TRST 60010.

**70006 Empirical Methods for Translation Studies (3)**  
Study of the methods and research designs used to conduct empirical research in translation, with an emphasis on experimental design of cross-language tasks, the use and analysis of bilingual verbal protocols, the application of new methods such as keystroke-logging and eye-tracking and the particular empirical and methodological issues involved in cross-language research data-gathering and statistical analysis. Prerequisite: translation studies (TRST) major.

**70007 Corpora in Translation (3)**  
Exploration of corpus-based applications in translation studies research and the practice of translation. Competence in utilizing translation-oriented corpus-based tools and corpus building will be fostered. Prerequisite: translation studies (TRST) major.

**70008 Translation in Cognition (3)**  
Study of foreign language translation and interpreting from a cognitive science perspective. Includes discussion of current

empirical research, application of selected models of cognition to problems in translation studies and research design in translation process research. Prerequisite: translation studies (TRST) major.

**80091 Seminar in Translation Studies (3)**  
Seminar for doctoral student to present and discuss research related to specific areas of Translation Studies. May be taken for a total of 6 semester hours alone or in combination with TRST 80191.

**80098 Research (1-15)**  
Research for doctoral students. Credits earned may be applied toward degree if department approves. Repeat registration permitted.

**80191 Seminar in Translation Informatics (3)**  
Seminar for doctoral students to present and discuss research related to specific areas of translation informatics. May be taken for a total of 6 semester hours alone or in combination with TRST 80091.

**80199 Dissertation I (15)**  
Doctoral dissertation. Registration in at least two semesters is required, the first of which will be the semester in which the dissertation work begins and continuing until 30 hours are completed. Prerequisite: admission to candidacy.

**80299 Dissertation II (1-15)**  
Continuing registration required of doctoral students who have completed the initial 30 hours of dissertation, continuing until all degree requirements are met.

## **Urban Design (UD)**

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. The minimum prerequisite for courses 70000 and*

*higher is doctoral standing. Additional prerequisites may apply and are listed in this catalog.*

## **55705 Forces That Shape Cities (1-3)**

This course examines the forces that have shaped urban form through history, how they impact our cities today, and the challenges they will pose for the future. Repeatable for a total of 3 credit hours.

## **55710 Design Methodology and Methods (1-3)**

Course on procedural theory in urban design, the nature of the design process and how its manipulation affects the quality and character of design products. Repeatable for a total of 3 credit hours.

## **55711 Case Studies in Urban Design (1-3)**

An in-depth evaluation of important examples of completed urban design projects presented by key project participants. Repeatable for a total of 3 credit hours.

## **60701 Urban Design Studio I (3-6)**

Introduction to urban design and its relationship to other design disciplines through analysis of neighborhood and definition of comprehensive area-improvement programs. Repeatable for a total of 6 credit hours.

## **60702 Urban Design Studio II (3-6)**

Urban design exploration of the formal relationships between buildings, open spaces and streets in the development of high density, mixed-use projects. Repeatable for a total of 6 credit hours. Prerequisite: UD 60701.

## **60703 Urban Design Studio III (3-6)**

Design of a comprehensive redevelopment strategy and implementation strategies for an urban area of diverse existing character. Repeatable for a total of 6 credit hours. Prerequisite: UD 55705 and 60702 and 65102.



**60704 Urban Design Studio IV (6-9)**

Independent design project, completed under the direction of an individual advisor selected from the graduate faculty. IP permissible. Prerequisite: ARCH 60703 and 60705.

**60705 Capstone Project Preparation (1-3)**

Development of a rationale and structure for the independent design project to be completed in the final semester of the program. Repeatable for a total 3 credit hours. IP permissible. Prerequisite: UD 60703.

**65101 Community Development Process (1-3)**

Advanced course on comprehensive community development. Case-study analysis, qualitative research and work with community initiatives are required. Prerequisite: special approval.

**65102 Urban Systems (1-3)**

Introduction to urban systems in its socio-economic, environmental and engineering aspects: residential fabric, commercial sector, open spaces network, transportation systems, infrastructures.

**65632 Urban Ecology (1-3)**

Study of urban habitats and ecosystems. Relationships between natural systems and community design, planning, development and redevelopment. Prerequisite: UD 60703.

**66995 Special Topics (1-4)**

Special topics in Urban Design. Repeated registration permitted.

## Graduate Visual Communication Design (VCD)

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*The minimum prerequisite for 50000-69999 level courses is graduate standing. Additional prerequisites may apply and are listed in this catalog.*

**50000 Basic Computer Graphic Design/Illustration (2)**

An introduction to the use of the computer as a tool in graphic design and illustration. Exploration of the relationship and integration of various hardware configurations and software solutions to meet the demands of today's designers/illustrators. IP permissible.

**50003 Intermediate Computer Design—Graphic Design and Illustration Various Software (3)**

Addresses the issues of page layout and design, digital manipulation and vector graphic illustration for graphic design professionals. Prerequisites: visual communication design (VCD) majors. Special fee: \$36 per semester.

**50025 Professional Portfolio in Graphic Design and Illustration (1)**

Development of a professional portfolio in graphic design and/or illustration through selection and refinement of previously completed classroom work and/or development of projects in areas of deficiency with emphasis on organization and presentation. Special fee: \$12 per semester.

**50052 Graphic Design—Travel and Field Experience (1-6)**

Development of awareness and understanding in the practical application of graphic design and communication through directed field trip experience. Repeatable for a total of 16 credit hours.

**50053 Graphic Design Studio—GLYPHIX (1-6)**

Professional experience through an internal design studio. Involves responsibilities and procedures for

the production of communication materials for off-campus clients including nonprofit organizations, charities, arts groups and selected on-campus groups and departments. Repeatable for a total of 12 credit hours. IP permissible. Special fee: \$12 per semester hour.

**50092 Internship—Graphic Design and Illustration (1-6)**

Experience in design studio, agency or company involving design responsibilities and procedures to broaden a student's understanding of the profession through part-time employment. S/U grading; IP permissible.

**50095 Special Topics: Graphic Design/Illustration (1-4)**

To broaden the course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. S/U grading; IP permissible. Primarily used to fulfill electives in graphic design or illustration. Repeatable for a total of 16 credit hours. Special fee: \$12 per semester hour.

**50193 Variable Title Workshop in VCD (1-3)**

Workshop setting dealing with intensive examination of special topics in VCD. May be repeated.

**50195 Selected Topics: Graphic Design/Illustration (1-4)**

(Repeatable). Variable topics related to GD&I.

**52000 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 of reproduction. Prerequisite: visual communication design (VCD) major.

**52002 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. Prerequisite: visual



communication design (VCD) major.

**52003 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. Prerequisite: visual communication design (VCD) major.

**52004 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.

**52051 Calligraphy and Layout (3)**

Development of creative techniques and technical proficiency in calligraphy as applied to illustration and graphic design.

**53000 Advanced Studio Skills/Graphic Design and Illustration—Electronic Prepress Production (2)**

A technical lecture course designed to teach the fundamental techniques and processes of electronic prepress and printing production. This material is presented through a series of lectures, demos, written tests and field trips. Prerequisite: VCD 50003.

**53001 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. Special fee: \$28 per semester. Prerequisites: visual communication design (VCD) major.

**53002 Typographic/Photographic Graphic Design (3)**

The use of typography (rather than visual imagery) as the primary design form in solving graphic communication problems. Special fee: \$32 per semester. Prerequisite: visual communication design (VCD) major.

**53003 Corporate Identity/Graphic Design (3)**

Use of graphic design forms (typography, photography and illustration) in the development of corporate identification for total advertising programs. Special fee: \$28 per semester. Prerequisite: visual communication design (VCD) major.

**53004 Issues for Graphic Design Businesses (3)**

Designed to familiarize students with the basic business, marketing, legal and ethical standards in the graphic design industry. Prerequisite: visual communication design (VCD) major.

**53005 3-D Graphic Design—Direct Mail/Packaging/Point of Purchase (3)**

Use of typography and visual images, photography and illustrations, in the structure of information for communication on three-dimensional surfaces: direct mail, packaging and point-of-purchase display. Special fee: \$28 per semester. Prerequisite: visual communication design (VCD) major.

**53006 Environmental Graphic Design (3)**

Aims at coordinating architectural planning, interior design, systems analysis and graphic communications. Special Fee: \$3.33/Cr. Hr. - Subject to change. Includes an independent research-based component.

**53007 Information Graphics (2)**  
(Cross-listed with JMC 56001)

Introduction to shapes, color, type and combinations of these for computer-designed news graphics; maps, charts, graphs and diagrams.

**53051 Experimental Typography (3)**

Investigation of form, pattern and texture in typographic usage. Emphasis on linking traditional letterform technology and computer-generated forms. Special fee: \$24 per semester. Prerequisite: visual communication design (VCD) major.

**55000 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.

**56000 Web Design and Programming I (3)**

Course focus is on Web concepts and high-quality Web design: computer science and visual communication design principles, tools, architecture, presentation, design and creation of Web sites through teamwork. Course is jointly taught by computer science and visual communication design. Special fee: \$10 per credit hour (subject to change). Prerequisites: visual communication design (VCD) major.

**56001 Web Design and Programming II (3)**

Advanced course in 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. Course jointly taught by computer science and visual communication design. Special fee: \$10 per credit hour (subject to change). Prerequisites: visual communication design (VCD) major.

**56003 Digital Typography (2)**

Applying typographic rules in digital environments. Organizing large amounts of text in complex architectures.

**56005 Visual Form and Kinetics Graphics (2)**

Visual communication design course on intermediate to advanced layout techniques focusing on kinetic graphics and video. Emphasis on creating specific messages with form; typography, color, space and sound.

**56053 Web Design and Programming Studio (3)**

A joint project course (Department of Computer Science and School of Visual Communication Design) exploring advanced aspects of Web design and programming. Student may pursue individually defined projects or team projects for real clients. Limited enrollment. Prerequisite: visual communication design.

**60009 Candidacy Review/Graphic Design and Illustration (1)**

A formal review of the work completed in the first 12 semester credit hours of graphic design and/or illustration courses for both M.F.A and M.A. S/U grading; IP permissible.

**60053 Graphic Design Studio Management—GLYPHIX (1-6)**

Professional studio management experience through internal design studio GLYPHIX. Involves responsibilities for coordinating undergraduate student designers, clients and vendors. Oversight of scheduling, production and quality control. Repeatable for a total of 12 credit hours. Special fee: \$12 per semester hour.

**60094 College Teaching in Visual Communication Design (3)**

For VCD student teaching or who anticipate teaching in higher

education. This experience also supports future careers in management, art direction and instructional roles in industry. Discussions include grading, critiques, classroom management and evaluation techniques.

**60095 Special Topics in Graphic Design/Illustration (1-4)**

To broaden course offerings into specialized areas of study in graphic design and illustration taught by experts in the profession as guest faculty. Used to fulfill primary studio requirements in graphic design and/or illustration. Repeatable for a total of 16 credit hours. May use S/U or letter grade depending on orientation of course (lecture or studio). IP permissible. Special fee: \$12 per semester hour.

**60096 Individual Investigation in Graphic Design and Illustration (1-16)**

Individual investigation related to topics of graphic design and illustration approved and under the direction of a faculty member. IP permissible. Special fee: \$12 per semester hour.

**60098 Research (1-15)**

Independent research under the direction of a faculty member in the division of Design/Illustration. Prerequisite: special approval.

**60099 M.A. Project Graphic Design and Illustration (4)**

A research project for nonthesis-option M.A. students approved in consultation with the faculty advisor that culminates in a visual project, exhibition and formal presentations. IP permissible.

**68199 M.A. Thesis I (2-6)**

Thesis students must register for a minimum of 6 hours, 2-6 hours in a single semester or distributed over several semesters if desired. S/U grading; IP permissible.

**68299 M.A. Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: VCD 68199.

**69199 M.F.A. Thesis I (2-6)**

Thesis students must register for a minimum of 6 hours; 2-6 hours in a single semester or distributed over several semesters if desired. S/U grading; IP permissible.

**69299 M.F.A. Thesis II (2)**

Thesis students must continue registration each semester until all degree requirements are met. S/U grading; IP permissible. Prerequisite: VCD 69199.